



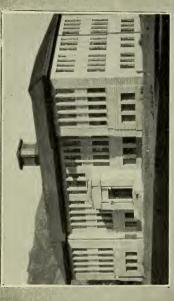




Above, The Utah Experiment Station Below, The President's Residence,

Above, The Tower of the Main Building seen across the south campus
Below, The Women's Building THE U. A. C. CAMPUS IS ONE OF THE BEAUTY SPOTS OF AMERICA









Above, The Plant Industry Building Below, The Chemistry Building

Below, The Animal Husbandry Building FOUR OF THE NINE PRINCIPAL BUILDINGS ON THE COLLEGE CAMPUS

Above, The Agricultural Engineering Building







Above, A Class in Botany Gathering Specimens Below, The Head of the College Herd

Above, Students Learning Correct Methods of Spraying Fruit Trees Below, A View of a Section of the College Farm Buildings







Top, Students at work in the forge shop Middle, A corner of the automobile laboratory Bottom, Part of a class in machine work

# Agricultural College of Utah BULLETIN

# GENERAL CATALOG 1921-1922

Thirty-second Year

With List of Students for 1920-1921

LOGAN, UTAH

Published by the College July, 1921

### CALENDAR FOR 1921

JANUARY	APRIL	JULY	OCTOBER
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 1920 21 22 23 24 25 26 27 28 29 30	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
FEBRUARY	MAY	AUGUST	NOVEMBER
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27 28	29 30 31	28 29 30 31	27 28 29 30
MARCH	JUNE	SEPTEMBER DECEMBER	
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
20 21 22 23 24 25 26 27 28 29 30 31	19 20 21 22 23 24 25 26 27 28 29 30	18 19 20 21 22 23 24 25 26 27 28 29 30	18 19 20 21 22 23 24 25 26 27 28 29 30 31

### CALENDAR FOR 1922

JANUARY	APRIL	JULY	OCTOBER
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# College Calendar for 1921-22

(Twelve weeks constitute a quarter; six weeks constitute a term.)

#### FALL QUARTER

September 12, Monday

September 13, Tuesday October 28, Friday November 4, Friday November 23, Wednesday November 24-27 (inclusive)

Entrance examinations. Registration of former students and of new students admitted on certificates. Classes organized. Periwig Club Play. Agricultural Club Ball. Fall quarter ends. Thanksgiving Recess.

#### WINTER QUARTER

November 28, Monday December 9, Friday December 22-Jan. 4 (inclusive) January 9-14 January 16-21 January 16-28

January 16-28 January 23-28

January 25, Wednesday

February 3, Friday February 9, 10 February 15, Wednesday February 21, Tuesday February 22, Wednesday February 23, 24 March 4, Saturday

Winter quarter begins. Debate Try-outs. Christmas Recess. Extension Division Convention at Logan, Farmers' Convention and Housekeepers' Conference at Logan. Exhibition of Arts and Crafts by Utah artists. Scoutmasters' Convention.
Farmers' Convention and Housekeepers' Conference at Cedar City.
Oratorical Contest, Sons of American Revolution Medal.
Commercial Club Ball. College Opera.
Oratorical Contest—Hendricks Medal.
Military Ball.
Washington's Birthday. College Play. Winter quarter ends.

#### SPRING QUARTER

March 6. Monday March 6-11 March 15. Wednesday March 17, Friday March 24, Friday April 15, Saturday April 21, Friday April 24-29 April 25, Tuesday

May 1, Monday May 8, Monday

May 27, Saturday May 28, Sunday

May 13, Saturday May 26, Friday

Spring quarter ends. Annual Alumni business meeting and social. (Commencement and Alumni Ball. Baccalaureate Sermon. SUMMER QUARTER Summer quarter begins. Reception to Summer School students. Annual excursion. Independence Day. First term ends. Second term begins. Pioneer Day.

Summer quarter ends.

Spring quarter begins.
Sixth Annual Glee Club tour. Oratorical Contest-Casto Medal.

Arbor Day.

"A" Day
Annual Junior Extension week.
College Science Contest—William Peterson

Conferring of Scholarships and other

Junior Promenade. Freshman Play.

Senior Chapel.

honors.

May festival.

June 5, Monday June 9, Friday June 24, Saturday July 4, Tuesday July 14, Friday July 17, Monday July 24, Monday August 25, Friday

### Board of Trustees

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JOHN DERN	Salt Lake City, Utah
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LOIS HAYBALL	I.ogan IItah
FRANK B. STEPHENS	Salt Lake City IItah
JOHN D. PETERS	Brigham City IItah
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E. O. HOWARD	Salt Lake City IItah
O. H. BUDGE	Logan, IItah
J. H. WATERS	Salt Lake City IItah
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ROBERT L. JUDD	Salt Lake City IItah
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# Officers of Administration and Instruction+

# The College Faculty

(Arranged in Groups in the Order of Seniority of Appointment)

ELMER GEORGE PETERSON, A. M., Ph. D.

President

GEORGE WASHINGTON THATCHER, B. S. Professor of Music

WILLIAM PETERSON, B. S. \*
Director, Experiment Station
Professor of Geology

HYRUM JOHN FREDERICK, D. V. M. Professor of Veterinary Science

FRANK RUSSELL ARNOLD, A. M. Professor of Modern Languages

JAMES CHRISTIAN HOGENSON, M. S. A. In Charge, Farmers' Institutes and Agricultural Correspondence Study, Extension Division Extension Agronomist

JOHN THOMAS CAINE, B. S. Auditor

FRANKLIN LORENZO WEST, Ph. D. Director, Interior Instruction Professor of Physics

FRANKLIN STEWART HARRIS, Ph. D. \*\*
Director, Experiment Station
Professor of Agronomy.

3 400

JOSEPH EAMES GREAVES, M. S., Ph. D. Professor of Bacteriology and Physiological Chemistry

CALVIN FLETCHER, B. Pd. Professor of Applied Arts

†The College Council consists of the President and all members of the faculty with the rank of Professor, Associate Professor Assistant Professor.

\*Appointment as Director Experiment Station Effective

September 1, 1921.

\*\*Resigned. Effective August 30, 1921.

RAY BENEDICT WEST, C. E.

Director, Schools of Agricultural Engineering and Mechanic Arts

Professor of Agricultural Engineering

ROBERT JAMES EVANS, Ph. D. Director, Extension Division

GEORGE RICHARD HILL, Jr., Ph. D. -Director, School of Agriculture Professor of Botany and Plant Pathology

JAMES HENRY LINFORD, D. Did. Director, Summer Quarter Superintendent. Correspondence-Study Department

ARTHUR HERBERT SAXER, M. S., Ph. D. Director, School of General Science Professor of Mathematics

NIELS ALVIN PEDERSEN, A. M. Professor of English

WILLIAM ERNEST CARROLL, M. S., Ph. D. Professor of Animal Husbandry

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GEORGE BALLIF CAINE, A. M. Professor of Dairy Husbandry

ORSON WINSO ISRAELSEN, M. S. Professor of Irrigation and Drainage

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RENA BAKER MAYCOCK State Leader, Home Demonstration Work, Extension

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Director, School of Commerce and Business Administration
Professor of Business Administration

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Professor of Marketing
In Charge, Information—Service

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CHARLES ROBERT JOHNSON Associate Professor of Music

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Medical Supervisor of Students
Acting Assistant Surgeon—U. S. Public Health Service

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RAYMOND J. BECRAFT, B. S. Assistant Professor of Range Management

E. LOWELL ROMNEY, A. B. Assistant Professor of Physical Education In charge of Competitive Athletics

AMY LYMAN MERRILL, B. S.
Assistant Professor of Household Administration. Superintendent of
Practice Home.

TRACY H. ABELL, M. S.\*
Assistant Professor of Morticulture

EZRA G. CARTER, M. S. Assistant Professor of Bacteriology and Physiology

WILBUR E. THAIN, B. S., C. P. A. Assistant Professor of Accounting.

ALEXANDER C. SULLIVAN, Major, U. S. A. (Coast Artillery) Assistant Professor of Military Science and Tactics.

WALLACE J. VICKERS, B. S. Assistant Professor of English.

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Assistant Professor of Economics, Correspondence-Study

CHARLES CHALLICE, Jr., Captain, U. S. A. (Quartermaster Corps.)

Assistant Professor of Military Science & Tactics.

HERBERT J. PACK, B. S. Assistant Professor of Zoology and Entomology.

<sup>\*</sup>On leave of absence.

SHERWIN G. MAESER, Ph. D. Assistant Professor of Chemistry.

DON WARREN PITTMAN, M. S. Assistant Professor of Agronomy.

SAMUEL ROY EGBERT Assistant Professor of Forging.

CHARLOTTE DANCEY, Graduate Nurse Assistant Professor of Household Administration Specialist in Home Health and Nursing.

GUSTAV WILSTER, M. S. Assistant Professor of Dairy Husbandry.

IVA MAUD DUNN, A. B. Asssitant Professor of Public Speaking.

HENRY OBERHANSLEY, B. S. Assistant Professor of Education.

ALICE KEWLEY, B. S. Assistant Professor of Education.

Assistant Professor of Engineering.

WILFORD J. MERRILL Secretary to the President

JOSEPH DEVONALD HOWELL, F. S. S. A. Instructor in Stenography.

LAVINA RICHARDSON, B. S. Instructor in Textiles and Clothing

AARON F. BRACKEN, B. S. Instructor in Agronomy.

HATTIE SMITH Assistant Librarian.

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YEPPA LUND, B. S. Instructor in Bacteriology.

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WINNIFRED SMITH, B. S. Instructor in Foods and Dietetics.

EMIL HANSEN
Instructor in Horticulture
Superintendent of Grounds and Greenhouses.

ELMER C. CLAWSON, B. S. M. B. A. Instructor in Business Administration.

DEAN S. CARDER, B. S. Instructor in Geology and Mathematics.

ARTHUR FIFE, B. S. Instructor in Irrigation and Drainage.

THELMA FOGLEBERG
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ANGUS MARION MAUGHAN, B. S. Instructor in Chemistry

SIDNEY STOCK Instructor in Auto Mechanics.

C. H. STEVENS
Instructor in Auto Mechanics.

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EARL THOMPSON,
Instructor in English and Mathematics

FRED SPENCER
Instructor in Auto Mechanics

E. J. YONK Instructor in Auto Mechanics.

DAVID HUGHES
Assistant in Carpentry and Wood Work.

ABBY GROESBECK Assistant in Registrar's Office.

JAMES McGRATH, Sergeant U. S. A. (Retired) Assistant in Military Science and Tactics.

CHARLES BATT
Superintendent of Water, Heat, Sewerage and Lighting
Plant.

RASMUS OLUF LARSEN Superintendent of Buildings

# Experiment Station Staff

FRANKLIN STEWART HARRIS, Ph. D.\*
Director; Agronomist

WILLIAM PETERSON, B. S.\*\*
Director; Geologist

HYRUM JOHN FREDERICK, D. V. M. Professor; Veterinarian

FRANKLIN LORENZO WEST, Ph. D. Professor; Physicist.

JOSEPH EAMES GREAVES, Ph. D. Professor; Chemist and Bacteriologist.

WILLIAM ERNEST CARROLL, Ph. D. Professor; Animal Husbandman.

BYRON ALDER, B. S. Assistant Professor; Poultryman.

GEORGE RICHARD HILL, Jr., Ph. D. Professor; Botanist.

ORSON WINSO ISRAELSEN, M. S. Professor; Irrigation and Drainage.

MELVIN CLARENCE MERRILL, Ph. D. Professor; Horticulturist

<sup>\*</sup>Resigned. Resignation effective August 30, 1921. \*\*Apointment effective September 1, 1921.

LUTHER MARTIN WINSOR, B. S. Associate Professor; Irrigation.

GEORGE BALLIF CAINE, M.S. Professor; Dairying.

DAVID STOUT JENNINGS, Ph. D. Associate Professor; Soil Surveys

RAYMOND J. BECRAFT, B. S. Assistant Professor; Range Management.

GEORGE STEWART, M. S. Professor; Field Crops.

REUBEN L. HILL, Ph. D. Professor; Human Nutrition.

EDGAR BERNARD BROSSARD, M. S., Ph. D. Professor; Farm Management.

WILLIAM L. WANLASS, Ph. D. Professor; Marketing.

IRA M. HAWLEY, Ph. D. Professor; Entomologist

CHARLES TARY HIRST, M. S. Assistant Professor; Associate Chemist.

WILLARD GARDNER, Ph. D. Associate Professor; Associate Physicist

BERT LORIN RICHARDS, Ph. D. Associate Professor; Associate Botanist.

BLANCHE COOPER, B. S. Associate Professor; Associate Human Nutrition.

EZRA G. CARTER, M. S. Assistant Professor; Associate Bacterioligist.

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DON WARREN PITTMAN, M. S. Assistant Professor; Associate Agronomist.

AARON F. BRACKEN, B. S. Instructor; Supt. Nephi Substation.

YEPPA LUND, M. S. Instructor; Assistant Chemist.

LOUIS F. NUFFER, B. S. Instructor; Assistant Botanist.

ARTHUR FIFE, B. S. Instructor; Assistant in Irrigation.

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J. R. BATEMAN, B. S. Instructor; Supt. Panguitch Farm.

HERBERT J. PACK, B. S. Assistant Professor; Assistant Entomologist.

JOHN L. COBURN, B. S. Secretary and Purchasing Agent.

KIEFER B. SAULS, B. S.\* Secretary to the Director of the Experiment Station.

BLANCHE CONDIT PITTMAN, B. A. Clerk and Librarian.

# Extension Division Staff

ROBERT JAMES EVANS, Ph. D. Director.

JAMES CHRISTIAN HOGENSON, M. S. A. In Charge, Farmers' Institutes and Agricultural Correspondence Study, Agronomist.

RENA BAKER MAYCOCK.
State Leader, Home Demonstration Work.

<sup>\*</sup>Resigned. Effective August 30, 1921.

WILLIAM WHITE OWENS, B. S. County Agent Leader.

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JOSEPH PRESTON WELCH, B. S. Assistant Professor; County Agent, Utah County

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EZRA R. PRICE, B. S. Assistant Professor; County Agent, Iron County.

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Assistant Professor; Home Demonstration Agent,
Salt Lake City.

GEORGE F. HOLMSTEAD, B. S. Assistant Professor; County Agent, Sevier County.

VERE L. MARTINEAU, B. S. Assistant Professor; County Agent, Salt Lake County

ROZINA SKIDMORE, B. S. Assistant Professor of Domestic Arts.

WILLIAM J. THAYNE, B. S. Assistant Professor; County Agent, Davis County.

ALRERT E. SMITH, B. S. Assistant Professor; County Agent, Millard County.

<sup>\*</sup>On leave of absence.

ARCHIE L. CHRISTIANSEN, B. S. Assistant Professor; County Agent, Tooele County.

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CHARLES O. STOTT, B. S. Assistant Professor; County Agent, San Pete County.

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ELLEN AGREN, B. S.
Assistant Professor; Home Demonstration Agent,
Weber County.

CHARLOTTE E. DANCEY, Graduate Nurse Assistant Professor; Specialist in Home Health and Nursing.

CHARLES J. SORENSON, B. S. Assistant Professor; County Agent, Weber County

FOREST SLAUGH Instructor; Club Leader, Uinta County.

DE LORE NICHOLS, B. S. Assistant Professor; County Agent, Morgan County.

AMY J. LEIGH, B. S.
Assistant Professor; Assistant Home Demonstration
Leader

ARDATH L. PRICE, B. S. Instructor; County Agent, Iron County

EFFIE W. MADSEN, B. S.
Instructor; Home Demonstration Agent,
Box Elder County.

GLADYS CHRISTENSEN, B. S. Instructor; Assistant State Club Leader

E. R. PRICE, B. S. Instructor; County Agent, Wasatch County

MORGAN McKAY, B. S. Instructor; County Agent, Southern Utah.

IDA R. MITCHELL, Clerk

### Standing Committees

#### 1921-1922

The President of the College is ex-officio a member of each standing committee.

Graduation-Professor Saxer.

Attendance and Scholarship—Professors F. L. West, Jenson, Hawley, Sullivan, Amy Lyman Merrill.

Student Affairs—Professor Jenson.
Publicity—Professors Arnold, Robinson.

Exhibits—Professors Owens, Fletcher, Hansen, Powell, Israelsen.

Entrance—Professors Daines, Harris, Hirst.

Debating—Professors Wanlass, Carroll, Daines, Vickers, Miss Smith.

Student Employment-Mr. W. J. Merrill.

Student Body Organization-Professors Harris, Jenson,

Pack.

Recommendations For Employment—Professor Henry

Peterson, Mr. W. J. Merrill.

Schedule—Professor Saxer. Lyceum Course—Mr. Coburn.

Graduate Work—Professors F. L. West, Saxer, M. C. Merrill.

Campus Improvements-Professors M. C. Merrill, Ray B.

West, Fletcher, George R. Hill, Jr., Mr. Emil Hansen.

Athletic Council—Professors Ray B. West (Chairman), Jenson, Romney (representing the Faculty), Professors Geo. R. Hill, Jr., George B. Caine, and Mr. John H. Bankhead, (representing the Alumni) Louis Falck, John Croft and Percy Hansen (representing the Student Body).

College Editor-Professor Robinson.

Awards and Honors—Professors Wanlass, Linford, Mr. Coburn.

Library-Professors George R. Hill, Jr., Pedersen, Wanlass.

Advanced Standing-Professor Richards.

Boy Scout Activity—Professors George R. Hill, Jr., Hogenson, Harris, Richards, Fletcher, William Peterson, Henry Peterson.

High School Relations-Professors Pedersen, M. C. Mer-

rill, Robinson.

### Branch Agricultural College of Utah at Cedar City

### OFFICERS OF ADMINISTRATION AND FACULTY

ELMER GEORGE PETERSON, A. M., Ph. D. President

P. VINCENT CARDON, B. S. Director.

PARLEY DALLEY, B. S.
Instructor in Physical Science and Mathematics.

JOHN L. COBURN, B. S. Financial Secretary.

JOHN S. CHRISTENSEN, B. S.
Director of Physical Education, Assistant Instructor in Animal
Husbandry

GEORGE H. LUNT, A. B. Instructor in History, Economics, Commercial Law.

GILBERT L. JANSON, A. M. Instructor in Commercial Subjects.

JOHN H. PENDLETON, B. S. Instructor in Woodwork, Mechanical Drawing, Mathematics.

LOTTIE H. ESPLIN, B. S. Instructor in English, Methods in Language and Literature.

F. C. BRAITHWAITE, B. S. Instructor in Art.

ANNA W. E. PETTIGREW Librarian.

GEORGE A. CROFT, B. S.. . nstructor in Forging, Machine, Automobile & Tractor Mechanics

CHRISTINE B. CLAYTON, B. S. Instructor in Domestic Science.

H. CLAUDE LEWIS, B. S. Instructor in Psychology and Education.

Primary Supervisor in Charge of Training

Instructor in Physical Education for Women.

# MARY URIE Instructor in Domestic Art.

D. L. SARGENT, B. S. Instructor in Agriculture; Supt. of Farms.

NORMAN McCARTY Instructor in Music, Director Band and Orchestra.

MYRTLE D. JANSON, A. B. Instructor in English and Elocution

Critic Teachers in Training School.

Secretary.

WILLIAM FLANIGAN Engineer.

CHARLES SLAUGHTER Superintendent of Buildings and Grounds.

In Charge of Dairy.

### Farm Bureau Presidents

		- 5
Robert White	Beaver, Beaver	Coun
John F. Burton		
Wilbur Burnham		
Ephraim Bergeson	Cornish, Cache	Coun
George E. Holt	Farmington, Davis	Coun
Alma Esplin	Cedar, Iron	Coun
R. A. Meeks		
H. E. Beck.		
Lee Peterson		
Charles Morrill	Junction, Piute	Coun
L. L. Bunnel	Provo, Utah	Coun
A. Theodore Johnson	Vernal, Uinta	Coun
David N. Beal		
Parley Glover		
D. P. Jensen		
H. Lloyd Hansen		
John M. McKellar		
Frederick Crook		
Ernest McClellan	I on Wayne	Coun
Talan II C I	C. C. Wayne	Coun
John H. Schmutz		
J. R. Beus	Hooper, Weber	Coun
Nephi Sargent	Hovtsville, Summit	Coun
O. W. Sitterud		
O. 11. Ditterud	Casticuate, Emicry	Cour

# AGRICULTURAL COLLEGE OF UTAH

#### LOCATION

The Agricultural College of Utah is in Logan, the county seat of Cache county, one of the most prosperous agricultural counties in the State. The city has a population, thrifty and progressive, of about 10,000; it is quiet, orderly, clean and generally attractive, with neat homes, substantial public buildings, electric lights, a sewer and a water system. The main streets are paved and cement walks ramify the city; an excellent street are line extends from the station to the College and the interuran connects Logan with other towns of the valley as well as with Salt Lake City.

The College, uniquely situated on a broad hill overlooking he city, one mile east of Main street, commands a view of the ntire valley and surrounding mountain ranges. The site of ne College was formed by the receding waters of prehistoric ake Bonneville which built an enormous delta at the mouth f Logan canyon upon which the College buildings and farm re located. The beauty and geological significance of the lotion are perhaps unsurpassed. A few hundred yards to the outh is the Logan river. A mile to the east is a magnificent ountain range with a picturesque canyon. In other directions e the towns and farms of Cache County distinctly visible rough the clear atmosphere. The valley is a fertile, slightly ieven plain, 4,600 feet above sea level, about twelve by sixty iles in dimensions, almost entirely under cultivation and surunded by the Wasatch mountains. It is one of the most attrace and healthful valleys in the West.

#### POLICY

The Agricultural College of Utah provides, in accordan with the spirit of law under which it was organized, a libera thorough and practical education. The two extremes in education, empiricism and the purely theoretical, are avoided; for the practical is based upon, and united with, the thoroughly scient fic. In addition to the practical work of the different course students are given thorough training in the sciences, mathematics, history English, art, modern languages and other relate subjects. The object is to foster all that makes for right living good citizenship and high efficiency.

Under this general policy, the special purpose of the Agricu tural College of Utah is to be of service in the upbuilding of th State and the great West to which it belongs. The instructio in agriculture and agricultural engineering, therefore, deals wit the special problems relating to the conquest of the great area of unoccupied lands, the proper use of the water supply and the kinds of crop or live stock which in Utah may be made most profitable; instruction in mechanic arts points out the most promising trades and teaches them so as to meet the needs of the State instruction in commerce relates to the undeveloped resources and the present commercial conditions of the State and investigates the principles and methods to be applied in the commercial growth of Utah; instruction in home economics teaches the women right living and economic independence.

The dominating spirit of the Agricultural College of Utah is to make the common work of the world—the work that most men and women must do—both profitable and pleasant. The motto of the College is, Labor is Life.

#### HISTORY

The Agricultural College of Utah was founded March 8th. 1888, when the Legislative Assembly accepted the terms of the

national law passed by Congress on July 2nd, 1862. Under this Act of Congress, and the Enabling Act providing for the admission of Utah to the Union, 20,000 acres of land were granted to the State from the sale of which there should be established a perpetual fund, the interest to be used in maintaining the College.

Under the Hatch Act, approved in 1887, the State receives \$15,000 annually for the Experiment Station. Under the Adams Act of 1906, the State receives an additional \$15,000 annually for research work by the Experiment Station. Under the Morrill Act of 1890, amended by the Nelson Act of 1907, the State receives \$50,000 annually for instruction at the Agricultural College. Under the Lever Act, the State received, in 1917-18, about \$15,000 which will increase for four years, for agricultural extension work to be done by the Agricultural College.

These federal appropriations, together with the annual income from the land-grant fund, represent the income received from the general government. Since most of these funds must be used in accordance with the law for specific purposes, the insituation is dependent on State appropriations for funds with which to provide additional instruction and for general maintenance. These needs have been generously met in the past by the Legislative Assemblies of the State. In 1888 the sum of \$15,000 was appropriated for buildings and the county of Cache and the city of Logan gave one hundred acres of land on which to build the College. Since that time the State has, from time to time, appropriated sufficient funds to erect and maintain all the buildings described in a later section, besides providing largely for instruction, experimentation and extension work.

By legislative action, the College receives annually 28.34 percent. of 28 percent. of the total tax revenue of the State, after deducting the revenue from 2.4 mills on the total State valuation (which is not to be exceeded), set aside for the support of the elementary and the high schools. In the same ratio the College will participate in the revenue from the recent occupational tax. The State, moreover, provides \$10,000 annually for

extension purposes, \$15,000 for experimental work and an i creasing fund for farm and home demonstrations.

In September, 1890, the Institution was opened for t admission of students. Degree courses were offered in agriculture, domestic arts, civil engineering, mechanic arts and conmerce; a preparatory course and short courses in agriculture and engineering were also given. Since that time many improvement have been made in the couses; some have been abandone various special, practical, year and winter courses in agriculture commerce, mechanic arts and home economics have been added the standard of the college work has been raised. In 1903, the Board of Trustees established the School of Agriculture, the School of Home Economics, the School of Mechanic Arts, the School of Commerce and Business Administration and the School of General Science and in 1911 the School of Agriculture Engineering.

In 1913, the Branch Normal School at Cedar City was made a branch of the Agricultural College and is so maintained.

In December, in 1918, the Board of Trustees authorized the establishment of an Agricultural Engineering Experiment Static to include the departments of irrigation and drainage, road farm machinery and transportation, manufacture of agriculture products, rural architecture and buildings and rural sanitatic and public health. The Utah Agricultural College is the first such institution in the United States to establish an agricultural engineering experiment station as a distinct division.

Since 1917, the Institution has consistently aided the Federal Government in war and post-war programs. During 1917 18, the College trained 492 young men in its Reserve Officers Training Corps. Six hundred eighty soldier mechanics wer trained at the Institution during the summer of 1918. With the establishment at the College in the fall of 1918 of a unit of the Students' Army Training Corps, seven hundred twenty-fow men were given collegiate and vocational military training A

rge percentage of former U. A. C. students who saw service ere commissioned.

The College gave valuable instruction in problems of ineased production and consumption through its class room ork. Twenty-five years of untiring experimentation showed cellent results when applied by Experiment Station specials to concrete problems of production. The value to the State the war service of the Extension Division was conservatively imated at \$4,738,027.00.

#### GOVERNMENT

The government of the College is vested primarily in the ard of Trustees and, under their control, in the four other ministrative bodies,—the Directors' Council, the College Counthe College Faculty and the Staff of the Experiment Station. ese, in their several capacities, determine the policy and intain the efficiency of the institution.

THE BOARD OF TRUSTEES consists of thirteen mems. Twelve are appointed by the Governor with the approval the State Senate; the thirteenth is the Secretary of State who x-officio a member. This Board assumes the legal responsibility of the institution, cares for its general interests and directs its tree by the enactment of all necessary by-laws and regulates. Vested in it is the power to establish professorships, to emy the instructing force and other officers of the College and formulate the general policy of the institution.

Between sessions, the power of the trustees rests with an cutive committee, whose actions are referred to the Board approval. In addition, there are committees, largely advisory, t deal with the general interests of the College.

THE DIRECTORS' COUNCIL consists of the President, Directors of the various schools,—Agriculture, Home phomics, Agricultural Engineering, Commerce and Business ministration, Mechanic Arts, General Science and Summer

Quarter—the Director of Interior Instruction, the Director of th Experiment Station and the Director of the Extension Division This body has immediate supervision of instruction and discipline in all the various schools. It constitutes a permanen executive and administrative committee of the College Counciling and Faculty.

THE COLLEGE COUNCIL consists of the President of the College and all members of the faculty holding the rank of professor, associate profressor or assistant professor. All important questions of discipline and policy are decided by this body.

THE COLLEGE FACULTY includes the President, the professors, the associate professors, the assistant professors ranking professors, the instructors and the assistants. As an administrative body it is concerned with the ordinary questions of methods and discipline and with various other matters per taining to the general welfare of the College. Through its standing committees it is in intimate contact with the student body and with the life and interests of the college community.

THE STANDING COMMITTEES have delegated to then the immediate direction of all the phases of college life. The conduct of the student in his college home and his regularity in performing college duties; the publications of the College and of the students; the interests of the students on the athletic field, in the amusement halls and in their various organizations,—all are within the province of appropriate committees.

The Experiment Station Staff consists of the President of the College, the Director of the Station and the heads, with their assistants, of the departments of the Station. This body is employed in the investigation of problems peculiar to agriculture in this part of the country. It is further responsible for the circulation, through private correspondence and regular bulletins, of such information as is of practical value to the farming communities.

THE STUDENTS. The College is maintained at public ex-

ense for public good. The students, therefore, are under a cculiar obligation to perform faithfully all their duties to the tate, the Institution and the community. Most important of nese is an active interest in all that concerns the moral and in-ellectual welfare of the College. Regularity of attendance, faithful attention to studies and exemplary personal conduct are asisted upon at all times by the administrative bodies of the follege.

#### ADMISSION AND GRADUATION

Admission. Entrance to the freshman class is based upon certificate of graduation from an accredited high school; or pon examination, in case of students of special training not obtained in high school.

A high school unit is equivalent to four preparatory credits at are one hour in length and extend over a period of 36 weeks to five that are forty-five minutes in length and extend over to same period of time.

A student may be ranked as a conditional Freshman provided is deficient in not more than one and one-half units of high hool work. This deficiency must be removed, however, before the student is admitted to Junior standing.

Students who have more than one and one-half units of gh school deficiency can not enter unless they are 18 years of ge, in which case they must register in the vocational courses See page 67.)

ADVANCED STANDING. Advanced standing for college ork taken after completion of four years of high school may be anted at any time by the Committee on Advanced Standing ovided the student presents satisfactory evidence that the work fered is equivalent to the work for which he wishes to substite it.

Advanced standing or college credit for high school units

earned in excess of fifteen units may be allowed at the time the student is given Junior class standing provided:

- (a) That the work for which advanced credit is sought be as advanced as the work given in the Freshman year;
- (b) That in each subject the work be approved by the department concerned; and
- (c) That not more than nine hours of the first two years of his college work and none of the work submitted for advanced credit, shall have a grade lower than "B."

The ratio of transfer shall be nine (9) credits for one unit of high school work, unless otherwise recommended by the department concerned.

Twenty-seven (27) credit-hours shall be the maximum acceptable on an excess transfer from high school.

Advanced Senior College standing for junior college credits in excess of quarter hours may be allowed at the time the student is given senior class standing provided:

- (a) That no subject be transferred with a grade lower than "B":
- (b) That not to exceed twelve quarter hours above the ninety be transferred;
- (c) That not more than six hours of work below "B" in grade be done at the Utah Agricultural College during the Junior year; and
- (d) That the approval of the department or departments concerned in the transfer be obtained.

CLASS STANDING. Students are ranked as Freshmen, Sophomores, Juniors and Seniors at the time they enter and this rank, when once fixed, is not changed during the school year.

Thirty-six hours (36) of approved college work, in addition to the prescribed entrance requirements, are required for Sophomore rank; eighty-one hours for Junior rank (see pages 30-31.) and one hundred thirty hours for Senior rank. The fore-

going requirements are to be exclusive of the required courses in Physical Education and Drill.

ADMISSION TO VOCATIONAL COURSES. Only persons 18 years or over are admitted to the vocational courses. No examination is required for admission to these courses.

To graduate from any of the schools, or to obtain class standing, special students not having the prescribed entrance requirements must satisfy a committee, by special examination, of their ability to pass the entrance requirements. This committee shall consist of the committee on entrance, the professor of English and two members of the faculty from the school in which the student wants to do his major work. Application for the examination, which must be taken not later than the beginning of the Junior year, may be made to the Registrar the first of the last week of any quarter.

REGISTRATION. The fall quarter opens Monday, September 12; the winter quarter, Monday, November 28; and the spring quarter, Monday, March 6. It is of decided advantage to register upon the opening date. The amount of work for which any student will be allowed to register will be reduced by one and one-half credit hours for each week or fraction thereof that the student is late in registration.

Fifteen hours, exclusive of Physical Education and Drill, is the normal registration for any one term. A student may, however, with the consent of the school director, register for seventeen hours.

QUARTER HOURS. A quarter hour of credit is the credit given for one hour of lecture or three hours of laboratory work each week for twelve weeks. This is the basis upon which credits are now calculated at the College.

Semester Hours. Semester hours of credit were employed at the College previous to September 1, 1918. A semester hour is the same as a quarter hour, except that the period is eighteen weeks.

Semester hours may be converted into quarter hours by multiplying by one and one-half.

### JUNIOR AND SENIOR COLLEGE COURSES

The collegiate work of the institution is divided into two divisions: Junior College courses and Senior College courses.

JUNIOR COLLEGE COURSES. Any student who has met the entrance requirements imposed upon the Freshman class may pursue any of the Junior College courses provided he has had the necessary prerequisites.

Senior College Courses. Any student wishing to pursue Senior College courses in any subject must first obtain full Junior class standing and have complete Junior College requirements in that subject, provided that any student having the necessary qualifications may pursue a Senior College course after receiving the permission of the instructor of the course and the director of the school in which he is registered.

JUNIOR CLASS STANDING. To obtain Junior class standing a student must have completely satisfied the entrance requirements. He must have satisfied all of the Junior College requirements in Physical Education and Drill and, in addition, present eighty-one hours of Junior College work which shall include forty-eight hours of the work in the required groups. (See pages 63 and following.)

Graduation. The degree of Bachelor of Science in Agriculture, Home Economics, Agricultural Engineering, Commerce, Mechanic Arts or General Science, is conferred upon those who present 15 units of high school work and full Junior class standing together with 54 hours of work from the Senior College and sufficient work from either college to make the total number of hours presented equal to 180 exclusive of the required courses in Physical Education and Drill (See pages 170 and 177.) The candidate for the bachelor's degree in Agriculture must also

ass an examination at the beginning of his senior year in farm ractice to be given by the head of the department in which the ludent is majoring, the director of the School of Agriculture and one other to be selected by these two. A student who has een excused from Physical Education or Drill for physical dispility or other valid reason must present an equivalent amount of other work for graduation. The student must meet all of the eneral requirements of the College (see pages 38-40) and all the group requirements of the school from which he wishes graduate. (See pages 63 and following.)

Other Requirements For Graduation. The studit must have been in attendance at least one school year preding the conferring of the degree. This residence period must clude his senior year, unless specific arrangements to the contry have been made. He must have no grade lower than "D" any subject used for graduation. Four-fifths of his quarter ades must be "C" or better. He must be of good moral charact. He must have discharged all college fees. He must be recommended for graduation by the faculty of the school in which he idoing his major work and must receive the favorable vote of to-thirds of the members of the College Council. Unless he sures an excuse in writing from the Committee on Graduation, must be present in person at the commencement exercises at wich he secures his degree.

No student may be recommended to the College Council for duation as long as he has any deficient grades in any subject d toward graduation. Students who expect to graduate at June commencement must have their work in shape for sentation to the College Council at least 60 days before comnicement.

GRADUATION AT THE CLOSE OF THE SUMMER QUARANY student who can satisfy the requirements for luation by the close of the Summer Quarter may be preed to the College Council in May. Such students are listed

with the class of the following year and receive their publ graduation at the following Commencement. The graduation such students, however, will be certified to by the proper at thorities of the College as soon as their work is complete provided it is completed before September 15 of the year which they are passed upon for graduation.

The College Council is the only body that has the authorit to waive or abridge in any way the foregoing requirements for

graduation.

# REQUIREMENTS FOR ADVANCED DEGREES

#### THE MASTER'S DEGREE

The degree of Master of Science may be granted on th completion of the following requirements:

The candidate must have been in actual residence at the Col lege at least one (1) year after receiving the Bachelor's degree and must obtain fifty-one (51) credits for work in addition to the 180 College credits and 15 High School units required for the Bachelor's degree.

To be admitted to the candidacy for the Master's degree the student must have his course of study approved by November 1 by the faculty of the school in which his major subject is taken.

A thesis covering work done in the major department must be prepared by May 1 and must be accepted by the faculty of the department.

The candidate must successfully pass an oral examination, which will be given by the heads of departments of the School in which the major subject is taken.

#### THE DOCTOR'S DEGREE

The degree of Doctor of Philosophy may be granted within certain departments of the College on the completion of the following requirements:

The candidate must have been in actual residence at a stand-

ard college or university at least three school years equivalent to nine quarters after having obtained a standard bachelor's degree, residence while an instructor not included. At least one of these years of residence must be at the Utah Agricultural College.

The candidate must satisfy the requirements of a major and two minor departments, these departments to be selected by the candidate with the approval of the Committee on Graduate Work from such departments and only such as are approved by the College Council and are equipped to give this type of work.

A thesis covering work done in the major department representing a high grade of research must be completed by May of he year of graduation and must be accepted by the three instructors in charge of the candidate's major and minor work together with the Committee on Graduate Work.

The candidate must satisfy the Department of Modern anguages that he has a reading knowledge of at least two forign languages by November 1, previous to the commencement which the degree is to be conferred.

The final requirements for graduation must be approved by he College Council by November 1, previous to the commenceient at which the degree is to be conferred.

The candidate must successfully pass a public, oral examinaon which will be given under the direction of the Committee n Graduate Work by the three professors in charge of his major nd minor work together with such heads of departments of reted subjects as may be determined by the professors in charge f the major and minor work.

Registration of candidates for advanced degrees is to be ade through the Committee on Graduate Work.

#### ORGANIZATION

The work of the College falls into three distinct divisions: rst, the Experimental Division, having for its object the disovery of new truth or the new application of established truth, or the advancement of life; second, the College Proper, giving instruction, especially to young people, on the home campus of the College; third, the Extension Division, which carries instruction to the people who can not come to the College campus.

To accomplish this work the following administrative divisions exist, each of which draws upon the departments for its instructional or experimental force:

- I. Experimentation.
  - The Agricultural Experiment Station.
  - 2. The Agricultural Engineering Experiment Station.
- 11. Instruction on the College Campus—the College Proper.

  - 3. The School of Agriculture.4. The School of Home Economics.
  - The School of Agricultural Engineering. 5.
  - 6. The School of Mechanic Arts.
  - 7. The School of Commerce and Business Administration.
  - 8. The School of General Science.
  - 9. The Summer Quarter.
- III. Instruction beyond the College campus.
  - 10. The Extension Division.

The instructional and investigational force and equipment necessary to carry out the work of the above divisions are organized into departments, of co-ordinate authority, each of which represents a somewhat definite field of knowledge. All officers of instruction or experimentation belong to one or another of these departments. One professor, designated head, carries the administrative responsibility of the department. At present, the College maintains forty-seven departments.

#### THE STUDENT BODY ORGANIZATION

The Student Body Organization embraces all the students of the institution. Its prime object is to foster a proper spirit of college loyalty and to give the students practice in managing public affairs. It also secures dispatch and efficiency, as well as uniformity, in the administration of all matters pertaining to

the entire student body and induces all students to participate in college activities. The organization provides each member with a maximum of proper athletic, theatrical and social recreation at a minimum expense, viz., \$5 annually. This society has control, under faculty direction, of the following student activities:

- 1. Athletics, including all inter-class and intercollegiate contests in football, baseball, basketball and track events. The Agricultural College is a member of the Rocky Mountain Comference, a fact which insures an interesting athletic program.
- 2. Musicals, including all public performances of the Band, the Orchestra and musical clubs.
- 3. Theatricals. In the past, A Midsummer Night's Dream, She Stoops to Conquer, Pygmalion, Milestones, The Admirable Crichton, What Every Woman Knows and various other productions, have been presented.
- 4. Debating and Public Speaking. Triangular debating arrangements have been made whereby, annually, the Agricultural College debates the University of Utah and the Brigham Young University on the same question. Interstate debates are also held. Those who make places on the teams not only win awards but are admitted to membership in the Agora, an honorary debating fraternity. Debaters showing special excellence are admitted to membership in Tau Kappa Alpha, a national honorary debating fraternity, a chapter of which is established at the College. Interest in inter-class debating is keen.

The annual oratorical contests for the Hendricks medal, for that given by The Sons of the American Revolution and for the chance to represent the College in the Inter-collegiate Peace contests, maintain among the students an active interest in extemporaneous public speaking. For dates of these contests, see college calendar, page 5.

5. Student Publications. The students of the College, under the direction of the faculty of English, publish a weekly school paper, Student Life, and a humorous magazine, The Magpie. The

junior class publishes the College year book, named Ti Buzzer; the Quill Club, the Agi-Literose; the Agricultural Clu

the Ag. Club Link.

6. Lyceum Course. Each year the Student Body present in connection with the B. Y. College, from six to eight lecture; readers, or musical attractions, of national or local repute. The entertainments are free to members of the Student Body.

#### STUDENT CLUBS

Not affiliated with the Student Body oganization, but staning largely for the interests of the various schools, are the filowing clubs:

The Agricultural Club, which aims to promote interest a scientific agriculture. The club has effected similar organizatics in the high schools of the State. Special lectures, often illitrated, are given at intervals throughout the season.

The Agricultural Engineering Society, which aims to stiulate the interest of students in the more practical side of te work embraced by the engineering courses. Men of repute se invited to discuss questions before the society. It also aims of promote the interest of the students socially.

The Home Economics Club, which is composed of the states in domestic science and arts. The object of the club is calcapted the students in touch with movements in their field and to pomote interest in home economics. Many home economic scieties in the high schools of the State are affiliated with this reganization.

The Commercial Club, working to promote the interests of the School of Commerce and Business Administration, to popularize the commercial courses and to consider matters of interest not encountered in routine work. The club maintains an annulecture course, given by prominent men of the State, on topics special interest to the business man. All commercial students reeligible to membership.

The Mechanic Arts Association, designed to promote the o-

cial and intellectual interests of its members. All the teachers and all the regularly enrolled students of mechanic arts are eligible to membership. Monthly meetings are held throughout the year at some of which lectures are given by specialists.

Gamma Sigma Delta, a chapter of the national honorary fraternity for students in agiriculture. Members are chosen for scholarship from the upper two-fifths of the junior and senior classes in agriculture.

Phi Kappa Phi, a chapter of the national honorary fraternity.

Tau Kappa Alpha, a chapter of the national honorary debating fraternity.

The Agora, a local organization open to men from the intercollegiate debating teams. Its purpose is to foster debating in the College and to keep alive among the old debaters an interest in such contests. Students may become members of both Tau Kappa Alpha and of The Agora.

The Chemistry Club, organized to promote interest in chemistry.

The Be-No Club, organized to foster scholarship, fellow-ship and loyalty.

The Benedicts' Club, designed to promote the social welfare of married students and to lower their expenses by co-operative buying.

The Periwig Club, composed of students prominent in dramatics. This club produces annually several plays.

The Booklovers' Club, organized for the study of subjects related to English literature but not usually treated in the class-room.

The Quill Club, an organization of writers.

The Camera Club; a group of students interested in artistic photography.

The Cosmos Club, organized for the study of present day problems; open only to men.

The Empyrean Club, organized for the study of current problems; open only to women.

Le Cercle Français, maintained by students in French tor

practice in speaking the language.

The Cosmopolitan Club, composed of students who have lived in other countries than the United States.

Beaux Arts Guild, designed to encourage interest in the various phases of Art by lectures and informal social meetings.

Alpha Sigma Nu, a senior honorary society. Membership is maintained by elections from the Junior class held each spring

Kappa Omricon Kappa, an honorary, professional home economics sorority, designed to encourage interest in home economics.

Various other clubs, as well as a number of fraternities and sororities, are also in successful operation.

#### STUDENT EXPENSES

Tuition is free. Utah students pay an annual entrance fee of \$25.00; students from other states pay \$50.00. By State law however, the Institution may relieve worthy and deserving students from payment of the entrance fee, provided that not mor than ten per cent. of the total student body be relieved of this fee in any one year. A uniform laboratory and library fee of \$5.00 for the school year or of \$2.00 for each quarter, if the student is not in attendance for three quarters, a gymnasium fee of \$1.00 for each quarter, a medical fee of \$2.00 for each quarter and a withdrawal deposit of \$1.00, are charged every student.

Every regular student must pay a Student Body fee of \$5.0 if registered for three quarters, of \$4.00 if registered for tw quarters and of \$2.00 if registered for one quarter, for which membership card is issued admitting him to all the activities cor trolled by the Student Body organization: athletic events-football, baseball, basketball, and track—dramatic and musica entertainments, socials, lectures, etc. This system has been foun

be a great saving to the students and a most excellent means of ostering proper interest in student activities.

The Utah Agricultural College has been designated by law s an Institution where units of the Reserve Officers' Training orps are maintained. As such it has promised the Government give certain military instruction of a definite kind and character.

Every physically fit male student who registers at the Colge becomes automatically a member of the Reserve Officers' raining Corps and subscribes to the military requirements of the institution.

In order to remain and receive instruction at the College or graduate finally from the College, the student must be in atndance at all military classes and do satisfactory work in them.

The student, by registration at the Institution, obligates mself to conform to such requirements as are or may be preribed by the College Council under the regulations of the Rerve Officers' Training corps. These requirements, at present, e as follows: Two years of required military training, followed, two years of optional military training. Free uniforms are rnished by the War department to those taking the required ork. Those taking the last two years receive, in addition to ee uniforms, commutation of subsistence. The requirements will ry slightly according to the military units in which the student gisters. During the year 1921-22, the units to be maintained the College include Coast Artillery, Motor Transport and Innarry.

All women students who are physically fit must take Physical Education during the first two years of their college work at Institution, or until they have satisfactorily completed Physical Education 11 and 12 or their equivalents. All vocational open students must register in Physical Education 10.

Each student taking Physical Education must provide herf with gymnasium suits and gymnasium shoes. Cost, about 00.

Each student in Foods and Dietetics courses must provide herself with the following: two hair nets, one or two white petticoats, two washable white uniforms, two white work aprons.

The uniforms and aprons must be of the standard designs

provided by the Textiles and Clothing Department.

Materials should be procured after consultation with the

instructors in charge.

All graduates from the School of Home Economics who desire to qualify as teachers in home economics under the Smith-Hughes Act must spend a period of six weeks in residence at the Practice Home. The expenses are \$6.00 per week for board and room.

The fee charged for a diploma of graduation is \$5.00.

Good board and room in a private home costs from \$6 to \$7.50 a week. By renting rooms and boarding themselves, students are able to reduce considerably the cost of room and board.

The College maintains a modern, well equipped cafeteria. Students are held responsible for any injury done by then

to the College property.

The following table furnishes an estimate of the actual yearl expenses of students attending the Utah Agricultural College:

Lo	west	Average	Libera
Tution, books, fees, etc\$	65	\$ 65	\$ 6.
Room and board		225	
Incidentals or miscellaneous		80	13
_			_
Total	305	\$370	\$471

The Senior Loan Fund, maintained by the Student Body

has helped many students through school,

The Johansen Scholarship Fund of \$5,000, a gift of the lat Mrs. Johanna Johansen, provides three scholarships annually each worth approximately \$120, for the help of worthy student of Junior or Senior rank.

#### SCHOLARSHIPS AND AWARDS

The One Thousand Dollar Liberty Bond Endowment yields a loan fund of \$40, which is to be loaned by the Directors' Council to a student who has made formal application before April 2, and who has need of financial help and who has demonstrated a high degree of scholarship in the work of previous quarters.

The U. A. Faculty Women's League endows the Institution with a fund of \$50, to be given annually as a scholarship to a worthy and deserving student of the School of Home Eco-

nomics.

The Lois Hayball Medal is to be awarded annually to a Junior or Senior student in the School of Home Economics on the following basis:

(a) Qualities of womanhood.

(b) Evidence of application of Home Economic principles n every relation of daily life.

(c) Proficiency in scholastic attainments.

The Hendricks Medal, a gift of Mrs. Carrie M. Hendricks n memory of the late Professor George B. Hendricks, is warded yearly to the student who delivers the best extemporaneus speech.

The Sons of the American Revolution award a medal annully for the best patriotic speech.

The Casto Medal, a gift of Mr. George D. Casto, is preented annually for the best memorized speech.

The Vernon Medal, a gift of Dr. Weston Vernon, is given ach year for the best short story written around western naracters and with a western setting.

The Howell Medal, a gift of Howell Brothers, is given anually to the best inter-collegiate debater.

The Men's Shop Medals, a gift of The Men's Shop, are given mually to the members of the championship inter-class debatg team.

The Utah Agricultural College Science Medal, a gift of Pro-

fessor William Peterson, is given each year to the student wri ing the best review of recent scientific research in either matl ematics, physics, chemistry, geology, zoology, botany or astron ony.

A loving cup, for scholarship, the gift of Dr. W. L. Wa lass, is presented each year to the social fraternity showing the highest scholarship. This cup will become the property

the first fraternity to win it three times.

Scholarship A's are given at the close of each year to the shighest ranking students.

A list of the recipients of various honors will be found

the back of the catalog.

Several further awards are given for athletic and oth student-body activities.

# BUILDINGS AND EQUIPMENT

The College now has nearly thirty buildings, all mode, well lighted and heated and all carefully planned.

THE MAIN BUILDING is 360 feet long, 200 feet deep in the central part and four stories high. It contains the large autorium, seating about 1,500, the administrative offices, the libration and many class rooms and laboratories.

THE WOMEN'S BUILDING is one of the largest and be equipped structures devoted entirely to domestic science and as

in the inter-mountain region.

THE THOMAS SMART GYMNASIUM is one of the finest a most complete college gymnasiums in the Rocky Mountaregion. It contains a main exercise hall, 114 by 70 feet, the equipment of which can be quickly put in place or hoisted of the way to suit any need. Ten feet above the main floor is running-track, a hand-ball court and a wrestling and boxist room. The large pool, shower and steam baths and dressis rooms with steel lockers are ideal.

THE EXPERIMENT STATION is a two-story brick structus

feet long and 35 feet wide, containing the offices of the standard staff, a reading room and a dark room for photography.

THE MECHANIC ARTS BUILDING, a two-story brick structer, has a floor area of 40,000 square feet and contains the woodbrking department, machine shops, forging rooms, foundry, carage building rooms, mechanic arts museum, drafting rooms, re-printing room, room for painting and staining and class oms,—all well equipped.

THE CHEMISTRY BUILDING, containing three stories, thorghly modern in plan and equipment, is occupied by the Dertments of Chemistry, Physics and Bacteriology.

THE LIVE-STOCK BUILDING of three stories is excepnally well fitted with facilities for the study of dairying, hog,

rse and sheep husbandry and range management.

THE AGRICULTURAL ENGINEERING BUILDING, an excellently anged three story brick structure, houses the Departments of igation and Drainage, Surveying, Hydraulics, Mechanical awing, Architecture, Household Sanitation, Farm Mechanics, luding auto and tractor work and some related phases of the rk of the Institution.

THE PLANT INDUSTRY BUILDING is a four story brick build, thoroughly modern in arrangement. It houses the departits of Agronomy, Botany and Plant Pathology and Horticula.

THE BARNS contain the various breeds of cattle, horses, ep and hogs most common in the western section.

THE HORSE BARN is the most modern structure of its kind can be built.

THE STOCK JUDGING PAVILION makes it possible to do stock ging in all kinds of weather.

THE POULTRY YARDS are equipped with various types of dings to accommodate about one thousand fowls, a brooder se with a capacity of 2,500 chicks and a modern incubator in with standard incubators of several makes and designs.

The laboratory is well supplied with different styles and sizes of incubators, brooders, food hoppers, etc., suited to use in study oi the management of large and small flocks.

THE GREENHOUSES are prepared for laboratory instruction in the propagation of horticultural plants and in the practice of floriculture and vegetable gardening.

THE VETERINARY HOSPITAL contains a well-equipped dis-

pensary, operating room and stalls for patients.

THE VEGETATION HOUSE will be ready this fall. It will form the first unit of a new and extensive greenhouse system.

THE SEED HOUSE is designed as a store house for the seeds

of the Department of Agronomy.

THE HEATING PLANT, in order to take care of the many new buildings on the College Campus, has been doubled in size and will insure properly heated laboratories and class rooms.

# EQUIPMENT

The Bacteriological Laboratory is well equipped with modern apparatus. To encourage careful work, the students are provided with individual lockers.

The Chemical Laboratories are modern and thoroughly

equipped.

The Physical Laboratory Equipment is complete, consisting of all the necessary apparatus for class demonstration. Gas, compressed air, continuous and alternating current electrical power, etc., are available.

The Physiological Laboratory is supplied with an excellent collection of native animals, skeletons, both articulated and disarticulated, many enlarged models of organs, a papier mache man-

ikin and complete slides of all the tissues.

The Zoological and Entomological Laboratory is equipped with water and gas, improved instruments, embryological models, skeletons from the vertebrate groups, collections of mounted birds, mammals, reptiles, fishes and insects.

The Botanical and Plant Pathological Laboratory is well equipped for general work as well as for research. The department maintains a good working library in connection with the laboratory.

The Department of Agronomy is provided with a large collection of agricultural plants, seeds and soils, representing the main crops and types of soil of the inter-mountain region.

The College farms are equipped with the best and latest implements and machinery for carrying on work scientifically. They are divided, for illustrative and experimental purposes, into numerous plats on which many varieties of farm crops are grown and upon which important experiments are carried on.

The soil physics laboratory has a good supply of apparatus for accurate and up-to-date work.

The farm crops laboratory, equipped with gas, has a large supply of farm crops on hand and is well supplied with apparatus.

The Commercial Rooms, occupying the entire third floor of the front of the Main building, are specially designed and furnished for business. The room for typewriting contains a full complement of standard machines.

The College Museum contains many specimens illustrative of geology, mineralogy, paleontology and vertebrate and invertebrate zoology, including a large series of the insects of the intermountain region and an extensive series of plants of the western highlands. An extensive collection of grains represents the produce of Utah and other states. Contributions of fossils, ores, animals, plants, relics or other material of value to the museum, are appreciated. All gifts are labeled and preserved and the name of the donor is recorded.

The Art Rooms, composed of six studios, are supplied with plain and adjustable tables, easels and model stands, individual lockers, cases for materials, casts from the old masters in sculpture, reproductions of great paintings, still-life models and drap-

eries, as well as with a valuable collection of ceramics, textil and books on art.

The Library occupies the entire front of the second floor the Main building. It is the laboratory for every course given the College and contains about 34,400 books and a large numb of pamphlets. The books are classified by the Dewey decimal sy tem and there is a complete dictionary card catalog. The she list, also on cards, forms a classified catalog for official us

The library is also a depository for United States doc ments and for the Carnegie Institute. The files of the United States Department of Agriculture and publications the Experiment Stations are nearly complete; the bulletins are bound and made easy of access by the printed card catalog. There are one hundred and forty periodicals on the subscrition lists, besides about one hundred which are received as a changes for publications of the College and of the Experime Station. Practically all the newspapers of the State are on finite the Reading Room. The Reading Room is beautifully furnised in oak and contains many oil paintings and pieces of status.

The land occupied by the College embraces about 142 acf Of this, thirty-five acres constitute the campus, laid out w flower-beds, broad stretches of lawn, tennis courts, wide driv and walks.

Immediately east of the Main building is the quadran of about ten acres. The Adams athletic field is one-fourth n west of the campus. The farms comprise 97 acres, the orcha: and the small fruit and vegetable gardens, 10 acres.

In order to enlarge the experimental and instructional opertunities of the faculty and students of the college, the St Legislature in 1919 authorized the expenditure of \$25,000 to pechase additional farm land.

Other farms are maintained, under the direction of the I periment Station, in various parts of the State.

The equipment of the Branch Agricultural College is scribed in the circular of that institution.

# THE EXPERIMENT STATION

The Agricultural Experiment Station is a division of the Colge, supported by Federal and State appropriations supplemental by the receipts from the sales of farm products. The Station as created for the purpose of discovering new truths that ay be applied in agriculture and for making new applications well-established laws. Essentially devoted to research, it does e most advanced work of the College. It is composed of seven-en departments with a staff of over thirty highly-trained ecialists who are investigating over fifty distinct projects.

The Station is not, in the ordinary sense, an institution here model farming is carried on. It has a much higher purse. The practices of the farmer are subjected to scientific tests order to determine why one is bad and another good. Act, on the suggestions thus obtained, the scientists begin new restigations in the hope that truths of great value to the mer may be discovered.

The Station confines its efforts as far as possible to the parilar problems of the inter-mountain region. Irrigation, the indation of western agriculture, has received greatest attenin. Elaborate experimental plats have been equipped where value of different quantities of water and methods of apcation have been studied and the underlying principles ught out.

Dry-farming problems are only second in importance to se of irrigation in the development of the West. A number experimental dry-farms are maintained on which every effort nade to increase production. Many of the present investigates involve the water-holding capacity of soils, the water remembers of crops, the movement of plant foods and other stions fundamental to all systems of agriculture.

Other problems vitally affecting the agriculture of the West under investigation. Alkali, the big problem of all arid and a larid countries, is receiving considerable attention. Breeding experiments for the improvement of sugar beets, potaus cereals, alfalfa and poultry are in progress. Insect pests a plant diseases affecting western crops and orchards are unconstant surveilance. The micro-organisms of the soil, which have recently been found to be an important factor in agriculture, are being studied. The development of better cropp methods, the dairy industry and the range lands of the State receiving attention together with various livestock rations. Pladisease, horticultural and soil surveys are now in progress Among the last projects to be started are human nutrition investigations and a study of the farm management problems of U.

Bulletins containing the results of experimental work circulars containing timely and practical information on variable subjects are issued at irregular intervals. These are mailed

of charge to all persons requesting them.

The Experiment Station has a high educational value Nearly all the staff are also members of the College facult the students, therefore, receive at first hand an account of methods and results of the work of the Station, as well-training in their application. The opportunities that the Station of great importance work in several branches of science of great importance. The scientific method and spirit characterize all its operations and none can fail to be benefited a study of the experiments that go on at all times of the y

The Station is always glad to assist advanced student

in any investigation they wish to undertake.

# THE AGRICULTURAL ENGINEERING EXPERIMENTATION

The Board of Trustees established in 1918 an Agricul-Engineering Experiment Station as a separate divison of work of the College. The organization of the agricultural gineering experiment station is a logical development of work of the College following the organization in 1911 of School of Agricultural Engineering. It will enable the college to use part of its funds, both federal and state, in the investigation of the many problems which confront the development of agriculture on the engineering side.

The profession of rural engineering is almost a realization. The farmer must, therefore, be advised fully in regard to engineering as it affects rural communities. That there was a direct need for this organization, is evidenced by the fact that much work which is properly a part of the work of such a station has been carried on informally by various departments of the college. The work of the Agricultural Engineering Experiment Station will continue in a more complete vay the work which has thus already been undertaken informally and it will branch out ultimately to include all of those roblems wherein the profession of engineering touches that f agriculture.

As organized at present, the Agricultural Engineering Exriment Station consists of the Departments of Irrigation and rainage, Roads, Farm Machinery and Transportation, Manacture of Agricultural Products, Rural Architecture and Buildgs and Rural Sanitation and Public Health. Complete proams of work have already been outlined in these different delirtments and comprehensive investigations are under way.

In the Department of Irrigation and Drainage the plan is study in detail irrigation institutions best suited for Utah; to etermine what irrigation practices result in maximum crop production; to investigate water measurement devices and engineering structures used in the transmission of water from intake to term; to study special types of distribution systems with an ea of determining which are at once the most efficient and fost economical; to study the management and operation of rigation systems; to determine what trench machines work best lider western conditions and to make a complete investigation of well-drilling machinery, methods of well-boring, ways

of locating the under-ground water supply and the determination of the best fuels to use in pumping.

The Department of Roads will pay particular attention to the development of a type of road which will at once stand the wear of heavy farm traffic and yet be easy to construct and utilize local materials in its makeup. In these investigations various gravels and sands to be found in different sections of Utah will be studied in order to determine their value as road materials. The importance of such a type of road cannot be overestimated because it will tend to a rapid improvement of rural roads throughout the state. The construction of bridges will also be studied.

The rapid development of the farm tractor and the great increase in the use of farm machinery in general have made it necessary that there be available complete information concerning the best types of farm machinery for western conditions. The Department of Farm Machinery and Transportation has outlined very liberal projects for investigation. Briefly stated, they are as follows: The practicability of tractors in intermountain farming, including the effects of high altitudes and steep slopes on the power of the tractor, the effect on cultivation and yield of the soil-packing tendency of the tractor and the effect of dust on the life of the engine; the economic value of the motor truck in hauling farm products; the future of gas power on the farm used for either pumping plants or for electric lighting plants; the improvement of beet cultivating and beet harvesting machinery; the efficiency of the small combined harvester for dry farming; a comparison of kerosene and gasoline as fuels for farm tractors and a study of proper lubricants for the gas motor.

The manufacture of agricultural products has been litt'e studied in Utah and the field for investigation here offered to the new experiment station is very broad. The proposed investigations cover the manufacture and preserving of food

products; the care and utilization of clothing; the production of raw materials on the farm; the manufacture of foodstuffs, including the processes of milling, canning, pickling and evaporating; the manufacture of textiles; and the utilization of byproducts from manufacturing establishments.

The Department of Rural Architecture and Buildings will study the entire architectural problem as applied to the rural community. This will include, not only the proper planning of farm homes, barns and other structures, but the ventilating, heating and lighting problems to be met with away from the urban centers. A careful study will be made of proper building materials and of farm equipment.

The Department of Rural Sanitation and Public Health will deal with the problems of the health of the rural community. These will include a study of the sanitation of milk and water supplies; the sanitation of food; the sanitation of the home, including sanitary problems as they apply to location, heating, lighting, ventilation and sewage disposal of the farm home; the prevention of diseases; and studies in nutrition and child welfare.

#### THE EXTENSION DIVISION

Organized for the purpose of disseminating the work of the College and the United States Department of Agriculture among the people of the State and for the further purpose of beginning new work outside the College which may be of service to the people of the State, the Extension Division serves two purposes; it carries on organized instruction in the various subjects included in the College curriculum and it performs personal and community service of a more directly practical nature. The Extension Division is the joint representative in Utah of the United States Department of Agriculture and the Utah Agricultural College.

#### ADMINISTRATION

The Extension Division, in its administration, is division into departments, as follows:

Administration
Specialists
County Agent Work
Home Demonstration Work.

Junior Extension Work. Institutes and Schools Correspondence Study Community Service Bureau

A corps of specialists is maintained at the College for purpose of giving special aid to the Extension agents in accounties and otherwise promoting their special lines of work

County Agricultural Agents are maintained in most of counties of the State. Their chief work consists in aiding farm bureaus in developing and executing a program of agricultural improvement, in making necessary calls to individual farms, in supplying market quotations and in otherwise rending service to the farmer.

County and city home agents are maintained in a numbrof counties and cities of the State. The purpose of this was is to develop and carry out a definite program of home ipprovement which is done by working through organizations a by individual calls as far as possible. This work is carried through the home section of the farm bureaus.

County Club Agents are maintained for the purpose of c ganizing junior units of the farm bureaus and supervising an assisting the boys and girls in carrying out definite projec of the bureaus. Under this plan the primary purpose is to d velop leadership and train boys and girls in better methods of farm and home practice.

The Department of Institutes and Schools conducts mee ings and courses among the farmers, housewives and school of the State. This work will be done through the farm bureau co-operating with such other organizations as may be interested. These meetings may be single or one day meetings, called in titutes, or they may be systematically organized courses in one or many subjects, called schools. The Annual Farmers' Round-ip and Housekeepers' Conference at the Agricultural College t Logan and at the Branch Agricultural College at Cedar City ome under this department.

The Correspondence Study Department. The Utah Agriculural College was one of the first educational institutions in the ater-mountain region to establish such a department.

Correspondence study furnishes an excellent opportunity or systematic instruction to the student preparing for high chool or college, the teacher, the professional or business man, he club woman,—to all who cannot leave home.

Admission to correspondence work. Students must be eighten years of age or graduates of the public school.

Scope. Courses offered:

- 1. Academic studies which, under certain restrictions, count ward a degree.
  - 2. Practical studies designed to advance men and women a given occupation.
- 3. Reading Courses for the farmer: short, practical, non-edit courses in agronomy, animal husbandry, horticulture, farm achinery, bee-keeping, etc.
- 4. Reading Courses for the housewife: short, practical n-credit courses in sanitation, home management, cooking rvice, sewing, home decoration home care of the sick, etc.
- 5. Reading Courses for the business man: short, practical n-credit courses in analysis of retail merchandising, retail accounting, bookkeeping for the wholesale grocer, book-eping for co-operative grain elevators and creameries.
  - 6. Preparatory or high school courses.
  - 7. Grade studies.

A special bulletin of the corresponding study department be mailed to any one interested.

The work of the Community Service Bureau, designed to

help Utah towns and villages in community celebrations, in work and school-life, includes (a) play service, (b) club service (c) community service, (d) debate service and (e) libraryse vice.

Publications of real value to the rural communities a issued in the form of circulars as occasions demand.

#### COLLEGE PROPER

For the purpose of efficient administration, the instrucon the campus or in the College proper is divided into se schools: (1) The School of Agriculture; (2) The School Home Economics; (3) The School of Agricultural Engineer (4) The School of Commerce and Business Administration; The School of Mechanic Arts; (6) The School of Gen a Science; (7) The Summer Quarter.

The School of Agriculture offers a four-year college country with opportunity to major in agronomy, animal husband bacteriology, botany and plant pathology, chemistry, dairy entomology, farm management, horticulture or veterinary scient

The School of Home Economics offers a four-year coll course with opportunity to major in foods and dietetics, hou hold administration or textiles and clothing.

The School of Agricultural Engineering offers a four-ye college course with the opportunity to major in art, agric tural surveying, farm mechanics, irrigation and drainage, roa rural architecture or rural sanitation.

The School of Commerce and Business Administration of fers a four-year college course with the opportunity to major accounting and business practice, agricultural commerce, busine administration, economics, history, marketing, political science soiology.

The School of Mechanic Arts offers, in addition to shorte trade courses, a four-year college course in mechanic arts, will the opportunity to major in art, iron work, mechanical draw ig, machine and automobile work, technology of mechanic arts, oodwork.

The School of General Science offers a four-year college ourse in general science.

The Summer Quarter offers instruction during twelve eeks of the summer, after the regular term has closed, in most the subjects taught during the winter.

Each school also offers practical year and winter courses hich may be taken by mature students fitted to follow them. For Work in Education, see index.

#### THE SCHOOL OF AGRICULTURE

Agriculture is one of the most promising of modern prossions. It is growing very rapidly and, owing to the scienic foundation that recent years have given it, large numbers of relligent people are adopting it as their means of livelihood. It is new agriculture is not a profession of unceasing toil. On contrary, the freedom, health, intellectual activity and profit be obtained from intelligent farming are attracting the best sees of people. Utah and other western states are offering exlent opportunities to those who prepare themselves for entific farming. There is a great demand for men who can pervise large farm enterprises; there is a greater demand for men who can act as experts, experimenters or teachers in the tools and other institutions in the State and National Government. The supply of such men does not equal the demand.

Experience having shown that practically all of the students o take agriculture come from the farms, it is assumed that y are acquainted with the various manual operations of farm rk. The design of the school is, therefore, to teach the sciences t underlie practical agriculture and to offer sufficient supplentary studies to develop the agricultural student to the inteltual level of the educated in the other professions. The agritural courses are planned to lay a foundation upon which the dent can build a successful career as a farmer or develop into

a specialist in agriculture. Before a degree will be granted agriculture, the student must give evidence that he has spent least one summer at farm work.

The general and departmental libraries enable the student to become acquainted with a wide range of agricultural and religiate literature; the laboratories of the College and the Experimer Station afford opportunity for training and experience not of tainable from books alone.

For subjects in which the student may major of r minor se Required Work for Graduation.

# THE SCHOOL OF HOME ECONOMICS

The steady growth of Home Economics courses in leading colleges and universities indicates the ever increasing realization that the well conducted home is the most important factor in the development of healthful and capable citizenship. But the multiplying complexities of modern life demand, further, that those in charge of the family understand much that is beyond the exact limits of the home. Hence the stress laid on the study of childhood and adolescence, the causes underlying the high cost of living and the problems of social, industrial and civic life.

The State of Utah wisely introduced courses in home management when the College was organized and the support which has been accorded to the work by the public shows the wisdom which prompted this provision.

Year by year increased facilities have become available for the students in the School of Home Economics. The most recent addition to its efficiency, the College Practice Home, testifies to the sustained faith of the Board of Trustees in this department of College activity. Groups of six senior students reside in the Practice Home for successive periods of six weeks each, sharing the work of the household under the supervision of a woman who is professionally trained and who has had many years of experience in her own home. Here the young women have the

opportunity to test out the practical work of their foregoing College courses.

The technical work in this school is organized into three departments, each dealing with one of the three equally important and interrelated phases of Home Economics. These are the Departments of Food and Dietetics, Household Administration and Textiles and Clothing. The course as a whole includes certain foundational courses in science and art that are prerequisite to the technical work and the so-called cultural courses, which must be included both to make a true Home Economics Course and to meet the College graduation requirements. This combination is well designed to fit women for the following professions:

(1) Home Keeping, (2) Teaching of Home Economics, (3) Home Economics Extension Work. It also prepares women to hold various positions in the social and industrial organizations; for instance, as sanitary inspectors, dietitians, health visitors and designers and household decorators.

The completion of the Home Economics course requires four years of College work and leads to the degree of Bachelor of Science.

The vocational courses in Home Economics are offered to women who are unable to take the regular course and yet desire training in this work

## THE SCHOOL OF AGRICULTURAL ENGINEERING

The rural problem has many phases. An adequate and self-perpetuating country life cannot be made simply by teaching people how to raise grain and fruit and how to manage and improve livestock. The country might be filled with farmers well trained in these branches and still lack many of the elements necessary for a well-balanced and efficient rural community. Many problems having to do with the entire community rather than with the individual farmer must be solved by men with training

for that kind of work rather than by those trained to product crops and livestock on a single farm. Again, many question on the individual farm have to do with construction rather the with production from the soil. These questions can be proper answered only by men with special training.

In the past, agricultural colleges have given their attent to the direct questions of farming, but now the entire rusproblem must be met. The farm must be a desirable and healful place to live. The buildings must be so arranged and constructed as to give the maximum of efficiency and comfort at the same time have proper sanitary provision. The rusproads must be such that the farmer can move his crops where small expense and go to town with comfort and speed. The machinery of the farm must be so constructed and cared of that it will be reliable and work economically. The limited supply of irrigation water must be so used as to produce maximal returns. There must be factories to change the raw material of the farm into high-priced finished products. All these necessities demand men trained for them.

To meet the demand, the College has organized a School Agricultural Engineering designed to enable men to solve all the most technical engineering problems of an entire rural comunity. The courses are very helpful to the farmer who denot wish to do the work of a trained engineer.

Students may major in art, agricultural surveying, farm in chanics, irrigation and drainage, farm and public roads, ruarchitecture and rural sanitation and public health. The courses all lead to the degree of Bachelor of Science.

# THE SCHOOL OF COMMERCE AND BUSINESS ADMINISTRATION

The purpose of the School of Commerce and Business A ministration is to give opportunity for a liberal education w special emphasis upon the commercial and industrial phases

ife. Persons who complete the commercial courses are prepared to assume leadership and responsibility in business and in various industries and professions. In order to meet the growing demands and to keep pace with recent tendencies in business education, students may major in accounting and business practice, agricultural economics, business administration, economics, history, marketing, political science and sociology.

In addition to these college courses, vocational courses are

For the professions of law and medicine, the commercial ourses afford excellent preparation. Graduates are prepared for positions as teachers in commercial schools. The demand for malified teachers is greater than the supply and many desirable positions as industrial managers are open to those who are qualfied.

The European War created an intense demand for men rained in foreign service and foreign trade. The Federal Bueau of Education has requested all colleges of the country to ffer courses in preparation for such service. Accordingly, the school of Commerce and Business Administration has outlined four years' course designed to fit students for foreign trade and diplomatic service. Especial emphasis will be placed on our outh American commerce.

#### THE SCHOOL OF MECHANIC ARTS

This school offers three-year trade courses in contracting nd building, forging and carriage work and automobile repairing; a two-year trade course in painting and interior decoration; and a four-year college course leading to the degree of Bachelor f Science.

The information offered finds application in every industrial activity and is much demanded by the rapid growth in the mechanical and industrial pursuits. As more and more of the work of man is done by machinery and labor-saving devices, it is desirable to obtain information that will enable man to meet the new conditions intelligently. The many applications of electricity and gas power in the factory, shop, home and on the farm, and the advent of the automobile demand a knowledge of materials, tools, machines and processes.

The agricultural student can obtain in the School of Mechanic Arts just the information he needs to enable him to do the constructive work in farm buildings and the repair work necessary in operating machinery thereby making farm life more profitable and desirable. Those who intend to enter engineering will find no better preparation than that offered in the mechanic arts courses. In the shops a knowledge of the nature of materials, methods of construction and operation of machinery can be had better than elsewhere. The demand for manual training teachers is far in advance of the supply.

The drafting rooms give thorough work in the methods of making mechanical drawings and afford opportunity to specialize in the line of work the student is pursuing, such as architectural, carriage, machine and agricultural drawing.

Students may major in art, iron work, mechanical drawing machine and automobile work, technology of mechanic arts and wood work. Vocational courses are also offered.

All products of the shop are the property of the school students being allowed to take away specimens of their work only by permission.

# THE SCHOOL OF GENERAL SCIENCE

To carry out the work of the several technical schools of the College, an efficient instructing force and complete modern

equipment have been provided in the natural and physical ciences, as well as in English, mathematics, history, language, etc. This makes it possible to satisfy the growing demand for strong baccalaureate courses affording a broad general education in the earlier years and admitting of specialization later. Such courses constitute the work of the School of General Science and, parallelling the other degree courses of the College, lead to the legree of Bachelor of Science.

For subjects in which students may major or minor, see Requirements for Graduation.

#### **EDUCATION**

By act of the 1921 legislature the Utah Agricultural College is required to add education to its course of study. The purpose is to enable students to prepare for the teaching profession in the broad lines of work represented in the College curriculum. In answer to this demand of the State, courses have therefore been added in psychology and education.

While all eligible students may enter these courses, some of them are especially designed to prepare Smith-Hughes teachers in agriculture and home economics and others to prepare extension workers.

These courses will be especially inviting because of the great demand for people trained in these lines. The federal government and the various states now employ about 5,000 extension workers and there is always great demand for teachers of agriculture and home economics and of trades and industries. Those who graduate in this work will have good opportunities for employment on twelve-month contracts, while teachers in other lines usually have but nine-month contracts. This fact alone will draw large numbers into them.

To keep teachers of agriculture and of home economics and extension workers alive and growing and to give them incentive to aspire to positions of broader usefulness, graduate courses be offered that will apply to the getting of higher degrees at that will prepare for extension work as county agriculturagents, county home demonstration agents, agricultural specists, home economic specialists and state and federal leaders these lines. Advanced work will likewise be offered to prepprogressive teachers for greater responsibilities in Smith-Hug work.

Vocational credits in education will be granted by the (lege for work done by high school students who are regularly ristered in the junior extension school conducted each year by College, subject to the following provisions:

a. That vocational credit be granted only to students ware registered for the course and complete the prescribed wounder the supervision of a representative of the College.

b. That the credit shall be based upon the work done, I that not to exceed 4 quarter hours of credit shall be given.

c. That any excess high school credit resulting from doi this work shall be covered by the regular catalog provisions a lating to excess high school credits.

# SUMMER QUARTER

The College maintains, as an integral part of its work, summer session beginning early in June and continuing for twelve weeks, divided into two terms of six weeks each. Each department of the College is represented, the courses of instruction being arranged to meet the particular needs of summer students. For the benefit of teachers, numerous courses in education are provided by the Department of Education as part of the regular work of the College. Students desiring to make u conditions or prepare for advanced work are given all assist ance possible. The entire equipment of the institution is available for the summer session and every care is taken to preserv the standard and the spirit of the College. No admission re-

rected by instructors to those courses in which they may pure work to the best advantage. Arrangements have been made the the State Board of Education to accept summer quarter edits in individual subjects in lieu of examination. An ennce fee of \$10 is charged. Board and rooms can be secured roughout the city at the usual prices. The special summer arter circular will be sent on request.

# SCHEDULE OF WORK REQUIRED FOR GRADUATION

The student is advised to read carefully the requirements admission and graduation on pages 27 to 32 inclusive. These briefly summarized as follows:

A student must present 15 units of high school work for rance, must complete all the required work in physical education and drill and, in addition, must present 180 quarter hours of lege work before receiving his diploma. The student should efully note that 54 hours of the required 180 hours of college rk must be chosen from courses listed among the Senior Colego courses.

jor	Subject	• • • • • • • • • • • • • • • • • • • •	24	hours

Twenty-four hours forming a major subject must be chosen the candidate in some one department. The student must conwith the professor in charge of his major subject and secure approval of the proposed combination of courses. This should lone as early as possible and must be done not later than the inning of the Senior Year.

Eighteen hours forming the minor subjects must be chosen ome other department or departments of the same school.

#### General Division.

Biological Science Group	ho
Exact Science Group	
Language Group24	
Social Science Group	ho
Special Group	ho
The special group is additional work in one or more of	of 1

above groups in the general division or in educational subject and will be designated by the School Director.

These electives are entirely at the disposal of the student. The departments from which the major and minor subjemay be elected and the subjects included in the various grot of the General Division are listed below.

# REQUIRED WORK.

#### Technical Division.

Major, 24 hours in one department.

Minors, 18 hours in some other department or department.

Minors, 18 hours in some other department or department of the same school.

#### SCHOOL OF AGRICULTURE.

Agronomy
Animal Husbandry
Art (minor only)
Bacteriology
Botany and Plant Pathology
Chemistry

Dairying
Entomology
Farm Management
Horticulture
Veterinary Science

#### SCHOOL OF AGRICULTURAL ENGINEERING.

ricultural Surveying

rm Mechanics

Roads

Rural Architecture
Rural Sanitation

igation and Drainage

#### SCHOOL OF COMMERCE AND BUSINESS ADMINISTRATION.

counting and Business

Practice

ricultural Economics
(minor only)

iness Administration

History

Marketing

Political Science

Sociology

Stenography (minor only) Typewriting (minor only)

#### SCHOOL OF HOME ECONOMICS.

(minor only)

sic (minor only)

Foods and Dietetics Textiles and Clothing

#### SCHOOL OF MECHANIC ARTS.

Work

hanical Drawing

Machine and Automobile Work Technology of Mechanic Arts Wood Work

#### SCHOOL OF GENERAL SCIENCE.

teriology

ny nistry

ish mology

ign Languages

Geology History

Library Work (minor only)

Mathematics

Music Physics Physiology

Zoology

The departments from which the general subjects may elected are grouped as follows:

REQUIRED WORK.

General Division.

BIOLOGICAL SCIENCE GROUP (18 hours).

Bacteriology

Botany Entomology Physiology

Veterinary Science

Zoology

EXACT SCIENCE GROUP (18 hours).

Accounting Chemistry Geology

Mathematics
Physics
Surveying

LANGUAGE GROUP (24 hours).

English

French German Latin

Public Speaking

Spanish

SOCIAL SCIENCE GROUP (18 hours).

Agricultural Economics Business Administration

Economics History Marketing
Political Science

Sociology

SPECIAL GROUP (18 hours).

ELECTIVES (42 hours).

#### VOCATIONAL COURSES

Vocational courses in agriculture, home economics, mechanic and commerce and business administration have been added the regular work of the school. In these, emphasis is given ect matter which can be put to immediate and practical appliant on the farm, in the shop, in business or in the home.

No scholastic prerequisites are required for entering the vonal courses except that the student must have acquired 13½

school units or be over eighteen years of age.

For full description of the vocational courses see departs concerned. All courses lettered "a," "b," "c," etc., are ly vocational. Some of the elementary courses of college may be entered by vocational students, however, after altation with the head of the department.

### TRADE COURSES

Three year courses, to prepare students for a trade, are in the following lines of work: wood work, forging, maand automobile work, and in interior decoration. Two courses are given in the following lines of work: show card ign writing, art metalry, china painting and fabric deco-

tudents wishing to prepare for a trade in any of the above should make arrangements with the heads of departments ned. Upon completion of the work outlined and upon proval of the College Council, they will receive a letter of nendation stating their proficiency in the work.

# Suggested Courses for Various Professions SMITH-HUGHES COURSE IN AGRICULTURE

Suggested Course in Agriculture for Students Preparing for Teachers in Agric culture under the Smith-Hughes Act. III Sophomore Year: II Freshman Year: Chemistry ......1 Physics ......3 3 Elocution ......3 Zoology .....5 Anatomy ..... Agronomy (Crops) .....4 Physiology Psychology Veterinary Science......4 Horticulture ..... Animal Husbandry ...... 16 III II Junior Year: Geology .....5 Senior Year: Plant or Animal Breeding Dairying ..... Methods of Teaching Agriculture ..... Rural Education ..... English ..... Teacher Training ..... Farm Mech .....5 Farm Buildings ......3 Bacteriology..... Surveying ..... Secondary Ed. .... Critic Work ..... Elective ..... Sociology .....3 Farm Management ......5 16 18 19 Feeds and Feeding ......5 Horticulture ..... 16 18

## EDUCATION

Students desiring to major in Education will register in the School of General Science. Such students in addition to their major work in Education must select a teaching major under the direction of the Director of the School of General Science. This teaching major may be chosen in any department of the College.

Suggested grouping of subject matter arranged primarily for girls who desire a four year course leading to the degree of Bachelor of Science with Education as

the

major subject.	TT	III	Sophomore Year: I	II	III
Freshman Year:	11	***	Education 43	3	3
Art 1, 21, 2 (Applied Art and Design)	2	2	Bacteriology( or Botany		5
Elementary Psychology5 Education 2	2	2	Zoology 1 (or Physiology	3	
H. Ad. 3 (Home Health and Nursing)	3	3	Physical Education 121 Economics 1		1 3
English 7 (Freshman Comp. and Rhetoric)2	2	2	Elective7	7	5
Physics 3 (Household Physics)4			17	17	17
Chemistry 1 (Applied Inorganic Chemistry)	4	2			
Physical Education 111	1	1			
Elective3	3	3			
	_				

Suggested substitutes and electives for Freshman year are: Foods 1; Publi Speaking 2; French 1; Music; Household Administration 1; English 6, History 3 or 4 Textiles 1 or 3. For Sophomore year: Art 22 or 27, English 5, Public Speaking 5 French 2, Chemistry 3, Geology 2, Foods 2, Textiles 2, Music, etc.

#### Junior and Senior Years.

All students must complete the group requirements for graduation mentioned on pages 63 to 66 inclusive.

State High School Certificate

Students desiring to qualify for the state high school certificate, should include sufficient education and other courses to meet the State Board requirements.

STATE BOARD REQUIREMENTS FOR HIGH SCHOOL CERTIFICATES
1. Professional High School Certificate: Valid for five years. This certificate is granted to applicants who have graduated from a standard college course of four years, or its equivalent. The applicant's college credits must show one year of professional work, including a course in psychology of at least five hours and in addiprofessional work, including a course in psychology of at least five hours and in addition at least 27 quarter hours in educational subjects, among which science of education, secondary education, training and methods, or their equivalents are prescribed. The remainder of the year's work may be in such related subjects as ethics logic, sociology, practical civics and hygiene and sanitation.

2. Temporary High School Certificate: Valid for one year. This certificate is granted to an applicant who has taught successfully not less than one year and who has completed four years of standard college work or its equivalent, including at least 18 quarter hours in education for the first certificate and 7½ additional hours in education for each succeeding certificate or renewal.

3. Junior High School Certificate: Valid for one year. This certificate is issued to an amplicant who files evidence of having completed three years of standard college or

to an applicant who files evidence of having completed three years of standard college or normal school work or its equivalent above the high school, including the educational subjects required for high school diplomas.

#### PAINTING

These courses are intended for those who desire to become proficient in portriature, figure painting, mural painting or landscape. The students should devote as much of their time as possible to the work

Freshman Year:	Three quarters
	Credits
Art 5A Free hand	drawing,
1, 2, 3	6
51, Perspective, 1,	2, 3 3
5J Composition 1,	22
5E Modeling 1, 2,	
4 History of Art a	
Sophomore Year:	•
Art 5B Free hand	l drawing
1, 2, 3	
5J Composition 3	
7 Anatomy a, b,	

in which they intend to specialize.	
27K Historic Ornament	6
3 Art Appreciation, Landscape	
Painting	1
Junior Year:	
5C Painting 1, 2, 31	5
5K Illustration 1, 2, 3,	
5J Composition 3	
Landscape	
Landscape	5
Senior Year:	
5 D Painting 1, 2, 3,1	5
5J Composition 3	
Landscape	
•	

#### ILLUSTRATION

The development of modern illustration in commercial as well as in literary fields has resulted in a great demand for artists who qualify in this line of art.

The purpose of these courses is to give the student a thorough training in the field of illustration.

Three qua	
Freshman Year: Ci	edits
Art 5A Free hand drawing,	
1, 2, 3	. 6
5 K Illustration 1, 2	
27G Lettering	. 2
5I Perspective 1, 2, 3	. 3
5J Composition, 1, 2	. 2
7 Anatomy, a, b,	. 2
Sophomore Year:	4
Art 5B Free hand drawing,	
1, 2, 3	. 9
5K Illustration 3	

27K History of Ornament
5J Composition 3
5E Modeling 1, 2, 3
7 Anatomy c
Junior Year:
Art 5c Painting, 1
5L Advertising illustration 1, 2,
4 History of Art
Senior Year:
Art 5 D Drawing15
5M Poster Composition and
Design15
8 Aesthetics

### SCULPTURE

The following	courses are	intended for	those	who	desire	to	become	sculptors	or
modelers of archite	ectural ornam	ental details		32				Cro	

odelers of architectural ornamental details.	
Three quarters	Junior Year: Credits
Freshman Year: Credits	Art 5G Modeling 1, 2, 3,
Art 5E Modeling 1, 2, 3 6	5D Drawing 1, 2, 315
5A Free hand drawing 1, 2, 3 6	7 Anatomy a, b, c 3
51 Perspective 1, 2, 3 3	27J Architectural Composition 6
4 History of Art a, b, c 9	8 Aesthetics 5
Sophomore Year:	Senior Year:
Art 5F Modeling 1, 2, 3 9	5H Modeling 1, 2, 3
5B Free hand drawing 1, 2, 3 9	27G Lettering 2
5J Composition 1, 2, 3 3	5K Illustration c 2
27K History of Ornament De-	
cianina 6	

#### HOME ECONOMICS

Bach

			Tour year course reading to 2	08.00	
helor of Science in Home Eco	nomic	s.			
Freshman Year I	II	III	Sophomore Year:		
Chemistry 15	5		Chemistry 3 (Organic		
(Inorganic Chemistry)			Chemistry)4	4	13
Botany 1 or Zoology 1		5	Bacteriology		5
Physics 1 or Physio-			Chemistry 7		5
logy 1 3			Physiology or Physics3	3	
English 53			Foods 24		4
English 7	3	3	Textiles 2 3	3	
Art 1, 21, 22		2	Economics 13	3	3
Textiles, 12		2	Physical Ed. 121	1	1
House. Ad. 11		1	_		
Physical Ed. II1		1	17	17	17
17	17	14			

Junior and Senior Years.

All students must complete the group requirements for graduation (major subject 24 hours; minor 18 hours, to include work in both departments other than department in which major work is done; exact science 18 hours; biological science 18 hours; social science 18 hours; language 24 hours; special group chosen under direction of School Director 18 hours), together with sufficient additional work to make a total of 180 hours exclusive of the required work in Physical Education.

Teachers Under the Smith-Hughes Act.

Teachers Under the Smith-Hughes Act.

To qualify as teachers under the Smith-Hughes Act, students must include all of the work outlined above for the Freshman and Sophomore years and complete the requirements for graduation with a major in either Foods or Textiles. They must elect Household Administration 22 (Home Furnishing and Decoration) H. A. 23 (Housewifery) with 6 weeks residence in Practice Home, H. A. 25 (Mothercraft and Child Welfare), Education 20 and 21 (Special methods and supervised Practice Teaching in a Smith-Hughes High School) together with sufficient additional educational subjects to meet the Utah State Board of Education requirements (27) hours for the State High School certificate.

# SUGGESTED COURSES IN COMMERCE AND BUSINESS ADMINISTRATION

The field of commerce or business is now so large that it is impossible for any erson to become proficient in all of its branches. However the business world recognizes several well defined professions or vocations for which trained men and women re always in demand. It is the aim of the School of Commerce and Business Administration to give the student a thorough grounding in the fundamentals of ecomics and business and then to give him special training that will prepare him to meter one of these recognized business callings. The following schedules of courses are been carefully worked out to guide the student in preparing himself for the ocation he desires to follow. These courses are not prescribed but the student who collows them will find at the end of his college career that he has a broad and thorough training. Furthermore, the student who enters college, selects the work he derires to do in life and prepares himself definitely for it has a great advantage over he student who goes through college without any definite objective.

# SUGGESTED GENERAL FRESHMAN AND SOPHOMORE COURSE

Quarter	Cr	edits	Quarter	Cr	edits
Freshman Year: I			Sophomore Year: I Principles of Business	II	III
Business English (Eng. 7-1)3	3	3	(Bus. Ad. 1)3	3	
General Economics (Economics 1)3	3	3	Municipal Government (Pol. Sci. 2)		3
Bookkeeping Technic (Accounting la)4			Econ. Development of U. S. (Econ. 3)3	3	
Principles of Accounting			Language Group3	3	3
(Acct. 2)	4	4	Exact Science Group3 Biology Group3	3	3
History or Political Science	3	3	Elective		3
Exact Science Group3	3	3			

#### SUGGESTED SPECIALIZED COURSE IN ACCOUNTING

Quarter	Cr	edits	Quarter	Credits
Junior Year: I Office Management (Of-	II	III	4) or Scientific Mgt. (Bus. Ad. 5)3	
fice Mgt. 4)3 Income 1ax Accounting			Income Tax Accounting (Acct. 10)	4
(Acct. 10)	4		Accts. of Bldg. & Loan Ass'ns., Banks and	
Ass'ns., Banks and Trust Co. (Acct. 3a)		4		4
World Politics (Pol. Sci.	3		Sci. 5)	3
Psychology of Advert. & Selling (Mkt. 1), Ad-			lic Finance (Econ. 9)3  Banking (Econ. 7) or  Taxation (Econ. 10)	3
vertising (Mkt. 2) and Salesmanship (Mkt. 3) 3 Geography of Commerce	3	3	Banking Practice (Econ. 8) or Statistics (Bus.	3
(Mkt. 7)		3	Ad. 8)	3
Language Group3 Biology Group3	3	3	13c) or Labor Problems	
Senior Year: I	II	III		3
Auditing (Acct. 6)4 Office Mgt. (Office Mgt.	4	4	ciology (Soc. 1, 2, 3,)3	3 3

SUGGESTED SPECI	AT.1	ZED	COURSE IN BANKING	
Ouarter				
Junior Year: I Psychology of Advert. & Selling (Mkt. 1), Advertising (Mkt. 2) and Salesmanship (Mkt. 3) 3 Agricultural Commerce	II	III	Quarter Rural Sociology (Soc. 1), Principles of Sociology (Soc. 2), Applied Sociology (Soc. 3)	
Psychology of Advert. &			Principles of Sociology	
Selling (Mkt. 1), Ad-			(Soc. 2), Applied So-	3
vertising (Mkt. 2) and	3	3	Auditing (Acct 6) or	3
Agricultural Commerce	3	3	Language Group3	3
(Mkt. 4) Marketing of			Scientific Management	
(Mkt. 4) Marketing of Farm Products (Mkt.			(Bus. Ad. 5) or Com-	
5). Cooperation in Ag-	-	2	merce and Commercial	
riculture (Mkt. 6)3	3	3	m 11 (n 10)	
Sci. 5)3	3		Income Tax Acct. (Ac-	
Commercial Law (Pol. Sci. 5)			Income Tax Acct. (Accounting 10)	3
5)		3	Geography of Commerce	
Language Group	3	3	(Mkt. 7) or Credits	
Biology Group3	3	3	Ad 2)	
Senior Year: I	II	III	Statistics (Bus. Ad. 8) or	
Money (Econ. 6) Banking			Labor Problems (Econ.	
Money (Econ. 6) Banking (Econ. 7), Banking				
Practice (Econ. 8)3	3	3	Elective3	3
SUGGESTED SPECIA			COURSE IN BUSINES	SS
AD:	$_{\rm IIM}$	IIST:	RATION	
Quarter	· Cr	edits	Quarter	Cred
Tunian Vanne	II	III	Senior Year: I	II
Psychology of Advert. &			(Bus. Ad. 5)3	
Psychology of Advert. & Selling (Mkt. 1) Advertising (Mkt. 2), Salesmanship (Mkt. 3) 3 Agricultural Commerce			Statistics (Bus. Ad. 8) or	
vertising (Mkt. 2),	3	3	(Mkt 7)	
Agricultural Commerce	J		Money (Econ. 6) or Pub-	
(Mkt. 4), Marketing of			lic Finance (Econ. 9)3	
Agricultural Commerce (Mkk. 4), Marketing of Farm Products (Mkt. 5) Cooperation in Agri- culture (Mkt. 6)			lic Finance (Econ. 9)3 Banking (Econ. 7) Taxation (Econ. 10) or Income fax Acct. (Accounting 10) Rural Sociology (Soc. 1), Principles of Sociology (Soc. 2), Applied Sociology (Soc. 3)3 Auditing (Acct. 6) or Language Group3 Credits and Collections (Bus. Ad. 2) Elective	3
5) Cooperation in Agri-	2	3	Taxation (Econ. 10) or	
Commercial Law (Pol	3	3	counting 10)	3
Sci. 5)3	3		Rural Sociology (Soc. 1),	
Labor Problems (Econ.			Principles of Sociology	
		3	(Soc. 2), Applied So-	3
Language Group or History	3	3	Auditing (Acet 6) or	3
Biology Group3	3	3	Language Group3	3
Diology Group			Credits and Collections	
Commerce and Com'l. Policies (Econ. 11) or			(Bus. Ad. 2)	
			Elective3	3
Scientific Management				
SUGGESTED SPECIA	LIZ	ED	COURSE IN MARKETI	NG
	r Cr	edits	Quarter	Cred
Junior Year:  Psychology of Advert. and Selling (Mkt. 1), Advertising (Mkt. 2), Salesmanship (Mkt. 3) 3 Agricultural Commerce (Mkt. 4), Marketing of Farm Products (Mkt. 5), Cooperation in Agriculture (Mkt. 6)	II	III	Senior Year: I Advanced Business Eng-	II
Psychology of Advert.			lich (Mkt 9)	2
Advertising (Mkt. 1),			lish (Mkt. 9)	-
Salesmanship (Mkt. 3) 3	3	3	Selling (Mkt. 8)3	3
Agricultural Commerce			Commerce and Com-	
(Mkt. 4), Marketing of			mercial Policies (Econ.	
Farm Products (Mkt.			11)	1
5), Cooperation in Agriculture (Mkt 6)	3	3	Money (Econ. 6). Bank-	1
Commercial Law (Pol.	3	,	ing (Econ. 7), Banking	
Sci. 5)3	3		Practice (Econ. 8)3	3
Labor Problems (Econ.			Public Finance (Econ.	
5)	2	3	9), Taxation (Econ.	
Language Group3	3	3	tics (Bus. Ad 8) or	
Biology Group3 Advertising Art1	1	í	Geography of Com-	
			mercial Policies (Econ.  11)	3
			Elective	3

## SUGGESTED SPECIALIZED COURSE TO TRAIN MANAGERS OF COOPERATIVE INSTITUTIONS

Quarter Freshman Year: I			Quarter (Bus. Ad. 1)3	Cre 3	edits
General Economics (Econ.	3	3	Economic Development of U. S. (Econ. 3)	3	
1)	3	3	Credits and Collections (Bus. Ad. 2) Labor Problems (Econ.		3
Agriculture (Two basic courses)6	6	6	5)		3
Exact Science Group3	3	3	Biology Group or History or Political Science3	3	3
Sophomore Year: I	II	III	or rontical belefice	J	J
Bookkeeping for Coopera-			Senior Year: I	II	III
tive Institutions (Acct.			Psychology of Advertis-		
1c)4			ing and Selling (Mkt.		
Principles of Accounting (Acct. 2)		4	<ol> <li>Advertising (Mkt.</li> <li>Salesmanship (Mkt.</li> </ol>		
Language Group3	3		3)3	3	3
Biology Group3	3	3	Money (Econ. 6), Bank-	J	
Exact Science Group3	3	3	ing (Econ. 7), Banking		
Agriculture (One basic			Practice (Econ. 8)3	3	3
course)3	3	3	Commercial Law (Pol.		
			Sci. 5)3	3	
Junior Year: I	II	III	Statistics (Bus. Ad. 8)		3
Elements of Agricultural			Office Management (Of-		
Economics (Ag. Ec. 7) 3 Principles of Sociology			fice Mgt. 4) or Sci-		
(Soc. 2), Applied So-			ientific Management (Bus. Ad. 5)3		
ciology (Soc. 3)	3	3	Taxation (Econ. 10) or		
Agriculture Commerce	·	Ü	Income Tax Account-		
(Mkt. 4), Marketing of			ing (Acct. 10)	-3	
Farm Products (Mkt.			United States History		
5) Cooperation in Ag-			(History 13c)		3
riculture (Mkt. 6)3	3	3	Language Group3	3	3
Principles of Business					
SUGGESTED S	PE	CTAT	JZED COHESE IN		

## SUGGESTED SPECIALIZED COURSE IN SECRETARIAL WORK

Quarter	Cr		Quarter	Cr	edits
Freshman Year I Business English (Eng.	II	III	Art (Lettering)1	1	1
Business English (Eng.			Biology Group3	3	3
7-1)3	3	3	Exact Science Group3	3	3
Typewriting 11	1	1			
Stenography 14	4	4	Senior Year: I	II	III
Office Appliances (Of-			Advanced Business Eng-		
fice Mgt. 1)1	1	1	lish (Mkt. 9)2	2	2
Bookkeeping Technic (Ac-		_	Commercial Law (Pol.	_	_
counting la)4			Sci. 5)3	3	
Principles of Accounting			Statistics (Bus. Ad. 8)	ŭ	3
(Acct. 2)	4	4	Office Management (Of-		Ü
History or Economics3	3	3	fice Mgt. 4)3		
C1- 37 7			Office Management (Of-		
Sophomore Year: I	II	III	fice Mgt. 3)	3	
Sociology or Economics3	3	3	Money (Econ. 6) or Pub-	· ·	
Typewriting 21	1	1	lic Finance (Econ. 93		
Stenography 24	4	4	Banking (Econ. 7) or		
Penmanship1	1	1	Taxation (Econ, 10)	3	
Language Group3	3	3	Labor Problems (Econ.	J	
Biology Group3	3	3			3
Junior Year: I	II	III	Office Training for Sten-		3
Psychology of Advertising	-11	111	orreshers (Office Mari		
and Selling (Mkt. 1)			ographers (Office Mgt.		
Advertising (Mkt. 2),			2)2	2	2
Salesmanship (Mkt. 2),	3	3	Accounts of Building and		
Municipal Government	3	3	Loan Ass'ns., Banks and		
(Pol. Sci. 2)			Trust Companies (Acct.		
Journalism (English 25)2	_	3 2	3a) or Credits and Col-		
	2	2	lections (Bus. Ad. 2)		3
Principles of Business	-		United States History		
(Bus. Ad. 1)3	3		(History 13)3	3	3

# Departments of Instruction.

- 1. Accounting and Business 26. Irrigation and Drainage. Practice.
- 2. Agricultural Economics.
- 3. Agricultural Engineering.
  - a. Agricultural Surveying.
  - b. Roads.
  - c. Rural Architecture.
  - d. Rural Sanitation.
- 4. Agronomy.
- 5. Animal Husbandry.
  - a. Poultry Husbandry.
- 6. Art.
  - a. Applied Art.
  - b. Fine Art.
- 7. Bacteriology and Physiological Chemistry.
- 8. Botany.
- 9. Business Administration.
- 10. Chemistry.
- 11. Correspondence Studies.
- 12. Dairy Husbandry.
- 13. Economics.
- 14. Education and Pedagogy.
- 15. English.
- 16. Entomology.
- 17. Farm Management.
- 18. Farm Management, Extension.
- 19. Farm and Auto Mechanics.
- 20. Foods and Dietetics.
- 21. Geology.
- 22. History.
- 23. Home Management, Exten- 45. Textiles and Clothing. sion.
- 24. Horticulture.
- 25. Household Administration.

- 27. Junior Extension.
- 28. Library Economy.
- 29. Marketing.
- 30. Mathematics.
- 31. Mechanic Arts.
  - Forging and Gener Blacksmithing.
  - b. Machine and Automobic Work.
  - c. Mechanical Drawing.
  - d. Woodwork and House building.
- 32. Methods in Experimenta tion.
- 33. Military Science and Tad tics.
- 34. Modern Languages Latin.
- 35. Music.
- 36. Physical Education.
  - a. For Men.
  - b. For Women.
- 37. Physics.
- 38. Physiology.
- 39. Political Science.
- 40. Public Speaking.
- 41. Range Management.
- 42. Rural Public Health.
- 43. Sociology.
- 44. Stenography and Typewrit ing.
- 46. Veterinary Science.
- 47. Zoology.

#### RECITATION TABLE

The recitation hours are sixty minutes in duration and begin t 8.00 a.m. The following shows the entire schedule:

1 hour, 8:00—9:00 2 hour, 9:00—10:00 3 hour, 10:00—11:00 4 hour, 11:00—12:00 5 hour, 12:00—1:00 6 hour, 1:00—2:00 7 hour, 2:00—3:00 8 hour, 3:00—4:00 9 hour, 4:00—5:00

From 11:30 a.m. to 1:30 p.m., the cafeteria is open.

On Mondays, the sixth period (from 1:00 to 2:00) is deoted to chape: exercises, on Wednesdays to Student Body neetings and on Fridays this period is left open for miscellanous meetings.

## Courses of Instruction.

#### ACCOUNTING AND BUSINESS PRACTICE.

Professor P. E. Peterson.
Assistant Professor Thain.
Professor Brossard.
Mr. ———

#### VOCATIONAL COURSES.

These courses aim to develop the students within a specime to assume positions as bookkeepers and office employed Thorough drill in principles and abundant practice in the main of entries in modern books of account and in the preparation statements are given.

Acounting practice periods extend through the seven eighth and ninth hours daily. As far as possible, studit should arrange to register in sections.

a. ELEMENTARY BOOKKEEPING. Thorough drill in principles of double entry and in the preparation of finatian statements. Two lectures and six hours practice work columns week. Four credits.

Sec. 1 Fall quarter.

Lec. T. S. 11.00

Lab. Sec. 1, M. W. F. 3:00 to 5:00; Sec. 2, T. Th. 2:0 t 5:00. Assistant Professor Thin

Sec 2 Winter quarter.

Lec. M. W. 3:00.

Lab. Sec. 1, T. Th. F. 3:00 to 5:00; Sec. 2, M. W. 2:0 t 5:00.

\*\*Professor Peter\*\*

b. Intermediate Bookkeeping. A continuation of a counting "a." Bookkeeping for a wholesale business. Emphysis laid on labor saving devices and analysis of statements. To lectures and six hours practice each week. Winter and Sport quarters. Four credits each quarter.

Lec. T. S. 11:00.

Lab. Sec. 1, M. W. F. 3:00 to 5:00. Sec. 2, T. Th. 2:00 to

Assistant Professor Thain.

c. Advanced Bookkeeping. Partnership and corporation unting, involving some of the more technical problems of . The course opens with accounting for a large wholesale ern but later leads into accounting for a factory. Fall, Winned Spring quarters. Four credits each quarter.

Lec. T. Th. 3:00; lab. M. W. 2:00 to 5:00.

Assistant Professor Thain.

#### JUNIOR COLLEGE COURSES.

One of the results of recent commercial development has the growth in importance of accounts to business men. A redge of accountancy is indispensable. Business efficiency scientific management demand that accountants be more mere bookkeepers. Men claiming professional standing in accounting profession must be men of broad, fundamental ing in the arts and sciences as well as in the technic of their ession.

1a. BOOKKEEPING TECHNIC. Many students who enter ge have had no previous training in bookkeeping. This se is intended to prepare such students to take Accounting 2, siples of Accounting. Two lectures and six practice periods. credits.

Sec. 1 Fall quarter.

Lec. T. F. 2:00.

Lab. Sec. 1 T. Th. F. 3:00 to 5:00. Sec. 2 M. W. 2:00 to

Sec. 2 Winter quarter.

Lec. M. W. 3:00.

Lab. Sec. 1 M. W. F. 3:00 to 5:00. Sec. 2 T. Th. 2:00 to Professor Peterson.

1b. FARM BOOKKEEPING. (Farm Management 1) Propies of bookkeeping with special application to the farm. lectures, six hours practice work. Practice periods to be ranged with instructor for any day between two and five. Water quarter. Four credits.

Lec. T. Th. 1:00.

Assistant Professor ha

of the principles of bookkeeping as applied to cooperative eter prises, such as creameries, grain elevators, livestock and rushipping associations. Two lectures. Practice periods to tarranged with instructor. Fall quarter. Four credits.

Lec. T. Th. 1:00.

Assistant Professor Tain

1d. Shop Accounting. A study of the fundamental bookkeeping technic and their application to conditions foul the small shop and in contract work. Two lectures, six practice work. Practice hours to be arranged with instructor Spring quarter. Four credits.

Lec. T. Th. 1:00.

Assistant Professor Tan

2. Principles of Accounting. For Freshmen. A tre ful study of principles with sufficient practice to give proficacy in the handling of accounts. Designed to meet the needs of earl business students. Two lectures and six practice hours. Inter and Spring quarters. Four credits each quarter.

Lec. T. F. 2:00.

Lab. Sec. 1 T. Th. F. 3:00 to 5:00. Sec. 2 M. W. 2: 0 to 5:00. Professor Pete on

5. Accounting Practice and Procedure. For Schomores. A study of the principles of valuation of assets, dore ciation, principal and interest in valuations, surplus, reservences consolidations and mergers and consolidated balance sheets. We lectures and six practice periods. Fall and Winter quality. Four credits each quarter. (Not given 1921-22.)

Professor Pete:011.

#### SENIOR COLLEGE COURSES.

3a. Accounts of Building and Loan Associations, NKS and Trust Companies. Practical course in the organion, business practice and accounting methods of building and associations, banks and trust companies. Special attention be given to labor saving methods and appliances. Preresite, Accounting 2 or its equivalent. Spring quarter. Four lits.

Lec. W. F. 10:00; lab M. W. Th. 3:00 to 5:00.

Assistant Professor Thain.

- 3b. Insurance and Insurance Accounts. Functions of insurance, premiums, reserves, types of policies, special benf; and insurance accounting. Fire insurance. Prerequisites, nomics 1 and Accounting 2. Four credits. (Not given 1921
  Professor Peterson.
- 3c. Retail and Department Store Accounts. (Not in 1921-22.)

  Professor Peterson
- 3d. Public Service Corporation Accounts. Study of cunts of railway stations, steam and electric railways, telebra and electric light and power companies. Four credits. Professor Peterson.
  - 3c. Municipal Accounts. (Not given 1921-22.)

    Professor Peterson.
- 4a. Cost Accounting. General theory. Fall quarter. r credits. (Not given 1921-22.) Assistant Professor Thain.
- 4b. Cost Accounting. Distribution of overhead and the workings of a cost system. Winter quarter. Four credits. Assistant Professor Thain.

- Ac. Cost Accouting. Study of types of systems suitab to different lines of industry. Spring quarter. Four credit (Not given 1921-22.)

  Assistant Professor Thai.
- 6. ADVANCED THEORY AND AUDITING. Study of the principles and practice of auditing. For senior students who plant enter the accounting profession. Two lectures and six practic hours. Fall, Winter and Spring quarters. Four credits eacquarter.

Lec. M. W. 2:00.

Lab. Sec. 1, M. W. F. 3:00 to 5:00. Sec. 2, T. Th. 2:00 t 5:00. Professor Peterson

7. Household Accounts. (Household Administratio 27) The practical application of accounting principles and practice to home management. Two lectures and six practice hours Spring quarter. Four credits.

Lec. T. Th. 1:00; practice hours at convenience of studen any day from 2:00 to 5:00.

Professor Peterson

8. FARM COST ACCOUNTING. (Farm Management 3) Application of cost accounting principles to the management of the farm. Prerequisite, Accounting 1a or 1b. Two lectures and six practice hours. Spring quarter. Four credits.

Lec. T. Th. S. 9:00; practice hours to be arranged.

Professor Brossard

9. Seminar. Current accounting literature and assigned problems. Open to Juniors and Seniors. One credit. Spring quarter. Time to be arranged.

Professor Peterson and Assistant Professor Thain

10. Income Tax Accounting. A detailed study of the income tax law and the rulings of the treasury department thereon; determination of net taxable income for individuals, part-

rships and corporations; preparation of tax returns. The exss profits tax law and its application to corporations. Deternation of invested capital. Two lectures and six hours prace work a week. Winter term. Four credits.

Lec. W. F. 10:00; practice hours to be arranged with insuctor any afternoons between 2:00 and 5:00.

Assistant Professor Thain.

#### OFFICE MANAGEMENT.

PROFESSOR P. E. PETERSON.
ASSISTANT PROFESSOR THAIN.
MR. HOWELL.
MISS THELMA FOGELBERG.

## JUNIOR COLLEGE COURSES.

1a. CALCULATOR OPERATION. Method of operating calcuors. Accuracy and speed secured. Open to Vocational stuits. Five practice hours each week. Fall or Winter quarter. e credit.

Time to be arranged with instructor.

Fall, Sec. 1. 9:00 daily except Saturday.

Fall, Sec. 2. 10:00 daily except Saturday. Winter, Sec. 3. 2:00 daily except Saturday.

Miss Fogelberg.

1b. CALCULATOR OPERATION. Advanced work on the caltor for increased skill. Accuracy and speed secured. Open ocational students. Five practice hours each week. Winter pring quarter. One credit.

Time to be arranged with instructor.

Winter, Sec. 1. 9:00 daily except Saturday.

Winter, Sec. 2. 10:00 daily except Saturday.

Spring, Sec. 3. 2:00 daily except Saturday.

Miss Fogelberg.

1c. Adding Machine Operation. A study of the use a correct operation of the adding machine. Accuracy and spe secured. Open to vocational students. Five practice hours ea week. Fall or Winter quarter. One credit.

Time to be arranged with instructor.

Sec. 1 8:00 daily except Saturday.

Sec. 2. 9:00 daily except Saturday. Sec. 3. 10:00 daily except Saturday.

Miss Fogelbei

1d. ELLIOTT-FISHER MACHINE OPERATION. Instruction, the operation of the Elliott-Fisher bookkeeping machine. Op to vocational students. Five practice hours each week. Fall Winter quarter. One credit.

Time to be arranged with instructor.

Sec. 1. 8:00 daily except Saturday.

Sec. 2 9:00 daily except Saturday.

Sec. 3 10:00 daily except Saturday

Miss Fogelbei

#### SENIOR COLLEGE COURSES.

2. Office Training For Stenographers. The aim of this course is to furnish students the necessary experience to eable them to take up the duties of an experienced stenograph in an office. Ample practice is given in filing, stenciling are in the use of modern office appliances such as the dictaphon mimeograph, calculating and bookkeeping machines, and in taking dictation from the various departments of the College. Proceedities, reasonable proficiency in stenography, typewritin and English 7 (Business English). Fall, Winter and Springuarters. Two credits each quarters.

Lec. and lab. Th. 2:00 to 5:00.

Miss Fogelbers

3. Duties of Private Secretaries. Position (defined meeting callers, handling correspondence, outlines and reports sources of information; editing and proof reading; handling ap

tenography and typewriting. Winter quarter. Three credits.

Lec. T. Th. S. 9:00.

Mr. Howell.

4. Office Management. Study of office location, layout, pment and administration; selection and training of employ-office records; filing methods. Prerequisite, Accounting 2 ts equivalent. Fall quarter. Three credits.

Lec. W. F. 10:00; lab. F. 2:00 to 5:00.

Assistant Professor Thain.

### AGRICULTURAL ECONOMICS

Professor Brossard.
Professor Wanlass.
Professor M. H. Harris.
Professor Stewart.
Assistant Professor Thain.

#### JUNIOR COLLEGE COURSES.

1. GENERAL ECONOMICS. (Economics 1) After a brief ry of man's economic development, a careful study is made ose fundamental laws and principles that govern our mod-conomic life. Some attention is also given to present econ-problems preparatory to a more intensive study in the addictional courses in this department. Fall, Winter and Spring ares. Three credits each quarter.

Sec. 1 M. W. F. 8:00. Sec. 2 M. W. F. 11:00.

Professor Wanlass.
Professor Harris.

FARM BOOKKEEPING. (Farm Management 1) Princis of bookkeeping with special application to the farm. Two tes, six hours practice work. Practice periods to be arted with instructor for any day between two and five. Winter Tr. Four credits.

ec. T. Th. 1:00.

Assistant Professor Thain.

3. ECONOMIC DEVELOPMENT OF THE UNITED STA (Economics 3). A critical study will be made of the devel ment of agriculture, industry, commerce, transportation, ba ing, labor organizations, etc., in the United States from Colonial Period to the present time. Fall and Winter quarte Three credits each quarter. T. Th. S. 8:00.

Professor Hari

4. AGRICULTURAL HISTORY. (History 8). Successive ste in the development of modern agriculture with emphasis on  $t^i$ social and scientific phases. Not open to Freshmen. Wint quarter. Three credits. M. W. F. 11:00.

Professor Stewar

5. AGRICULTURAL STATISTICS. (Business Administratio 8). Principles and methods of enumeration, collection, tabulation and usage of agricultural statistical data. Not open to Fresh men. Spring quarter. Three credits. T. Th. S. 11:00.

Professor Wanlass.

# SENIOR COLLEGE COURSES.

6. Rural Sociology. (Sociology 1.) The principles of sociological science applied to the problems of modern agricultural and rural communities. Winter quarer. Three credits.

Professor Harris.

7. ELEMENTS OF AGRICULTURAL ECONOMICS. (Farm Management 5). Economic principles underlying farm management, land tenure, general farming operations and rural life. Special attention is given to western conditions. Prerequisite, Economics 1 or 2. Fall quarter. Three credits. T. Th. S. 9:00.

Professor Brossard.

8. Rural Credits. A study of the credit needs of farmers and methods of meeting these needs. This involves a study of oin Federal farm land banks, joint stock land banks, cooperaste banking and new legislation needed to provide for financing quately the farming business of the country. Winter quar-

. Three credits.

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M. W. F. 9:00.

Professor Brossard.

es; 9. Marketing of Farm Products. (Marketing 5). Printiples of marketing and problems involved in marketing live-ock, grains, potatoes, hay, dairy and poultry products, etc. rerequisite, Economics 1 or 2. Winter quarter. Three credits.

M. W. F. 9:00.

Proessor Wanlass.

10. Cooperation in Agriculture. (Marketing 6) General principles of cooperation. Problems involved in the organization and management of cooperative creameries, cheese factories, canning factories, livestock shipping associations, insurance companies, etc. Prerequisite, Economics 1 or 2. Spring Quarter. Three credits.

M. W. F. 9:00.

Professor Wanlass.

11. FARM MANAGEMENT. (Farm Management 2). A study of the problems involved in choosing, buying, planning, organizing and managing a farm; in determining the proper size, balance, diversity and quality of farm business; in combining economically livestock, crops, pasture and ranges; and in using, efficiently, equipment and man and horse labor. Prerequisites, Economics 1 or 2, Animal Husbandry. 1 or 3a, Agronomy 1a (or equivalent) and Agronomy 6. Winter quarter. Three credits.

T. Th. S. 9:00.

Professor Brossard.

12. FARM COST ACCOUNTING. (Farm Management 3) Enterprise cost accounts and complete farm cost accounts. Special emphasis is given to the analysis and interpretation of results and their application in the organization and management

of the farm. Prerequisite, Agricultural Economics 2. Spring quarter. Three credits.

T. Th. S. 9:00.

Professor Brossary nk

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13. Research. Special investigations of problems in Agricultural Economics. Only those senior and graduate students who present an acceptable plan for an investigation will be admitted. Credit will be granted according to the work done. Professor Brossard.

Time to be arranged.

# AGRICULTURAL ENGINEERING.

## AGRICULTURAL SURVEYING. PROFESSOR RAY B. WEST.

# JUNIOR COLLEGE COURSES.

1a. FARM SURVEYING. For students of agriculture. Prashtice in the handling of surveying instruments that may be p chased by the average farmer. Running of ditch lines, gradius ing and leveling of land, retracting of section lines and the laying out of drains. Spring quarter. Three credits.

Lec. F. 12:00; lab. M. W. 2:00 to 5:00. Professor West!

1. Surveying For Agricultral Engineering Students. This is a more thorough course than course 1a, and covers in addition to the above a study of the instruments generally used by engineers, topographic surveying, hydrographic surveying and some mine and city surveying. Prerequisite, Trigonometry. Fall and Spring quarters. Professor West.

Lec. T. 1:00; lab. T. Th. 2:00 to 5:00.

3. Soil And Other Agricultural Surveys. The methods of preparing maps of a given agricultural area and surveys of the various agricultural interests within the area. Any quarter, Professor West. Three credits. (Not given 1921-22.)

oin 4. Mapping. Practice in the mapping of the various kinds of surveys that may be encountered by the agricultural engineer. Winter quarter. Three credits.

Lab. M. W. F. 2:00 to 5:00.

Professor West.

## SENIOR COLLEGE COURSE.

2. Canal and Road Surveying. Instruction and practice in the application of the surveying methods used in the laying out and construction of canals and roads. Prerequisite, Surveying 1. Open to Junior College students. Fall quarter. Five credits.

Lec. T. Th. S. 8:00; lab. M. W. 2:00 to 5:00.

Professor West.

#### ROADS.

Professor Ray B. West.
Professor William Peterson.

## JUNIOR COLLEGE COURSES.

1. Road Construction. Road location, grade, drainage, resistance to traction, road materials, construction methods and costs of all kinds of roads. Fall quarter. Five credits.

Daily except Thursday at 11:00.

Professor West

2. ROAD MATERIALS. (Engineering Geology). Dynamical and structural geology as it applies to construction work. Special attention is given to materials affecting road construction, dams and excavations. Winter quarter. Five credits.

Daily except Thursday at 11:00.

Professor Peterson.

3. Highway Structures. Study of highway structures, principally bridges and culverts, but including catch basins, drains, fences, etc. Three credits.

Hours to be arranged.

Professor West.

4. Inspection of Road Construction. A study of a roa inspector's duties on all types of road and pavement construction. Three credits. Spring quarter.

M. W. F. 11:00.

Professor Wes

#### SENIOR COLLEGE COURSES.

5. ROAD MAINTENANCE, Road organizations, employment of labor, cost of maintenance, width of tires, size of wheel maintaining drainage, repairing worn surfaces, comparison of different road machines, etc. Two credits. Spring quarter.

T. S. 11:00.

Professor Wes

#### RURAL ARCHITECTURE.

Professor Ray B. West. Professor Fletcher.

#### SENIOR COLLEGE COURSE

1. FARM STRUCTURES. The arrangement, design and coastruction of barns, stables, poultry houses, silos and other farn structures. Winter quarter. Three credits.

M. W. F. 11:00.

Professor West

3. MATERIALS OF CONSTRUCTION. The chemistry of iron steel, the alloys, etc., and their special use in machine parts strength, composition and proper use of the woods, plaster, glass, glue, paints, cement, brick, etc., in building. Fall quarter. Five credits.

Daily except Thursday 10:00.

Professor West

5. Concrete Construction For Agricultural Purposes. Various mixtures of cement and their uses; the use of concrete in the making of barns, water troughs, posts, etc. Spring quarter. Three credits.

Hours to be arranged.

Professor West.

- 8. PLANNING OF FARM STRUCTURES AND HOMES. The king of plans for farm buildings, including complete specificions, costs of materials and erection. Hours to be arranged. (Not given in 1921-22.)

  Professor West.
- 9. House Building And Contracting. Various methods construction; the frame, two brick, three brick, stucco, shingle, nent block and stuccoed hollow tile; cost and economy of each; erior finishing. Spring quarter. Five credits.

Daily, except Thursday 10:00.

Professor West

#### SENIOR COLLEGE COURSES.

- 4. MECHANICS OF FRAMED STRUCTURES... The strength and design of joints in timber framing. Holding power of nails, rews, drift bolts, etc. Design of beams, columns and simple sses in wood. Prerequisites, plane trigonometry and physics. Daily, except Thursday 10:00.

  Professor West
- 6. Reinforced Concrete. The design of beams, columns I floor slabs in reinforced concrete and the application of the nciples of design to retaining walls, cisterns, etc. Three cred-

(Not given in 1921-22.)

Professor West.

10a. Rural Architecture. Architectural composition. Idy of the principles of composition as applied to buildings, phasis being put on correction of common errors in the den of elevations. For related work see Art 24 and Horticule 8. Open to Junior College students. Ten studio hours. Il quarter. Three credits.

Hours to be arranged.

Professor Fletcher.

10b. Architectural Composition. Continuation of arse 10a with special attention to the relation of all the parts the exterior and architectural effect in environment. For re-

lated work see Art 24 and Horticulture 8. Prerequisite, Ruf Architecture 10a. Open to Junior College students. Ten studhours. Winter quarter. Three credits.

Hours to be arranged.

Professor Fletch

11. Styles in Architecture. Study of the great styles periods of architecture with special attention to those phasmost vital to an understanding of modern building. Open Junior College students. Ten studio hours. Spring quarte Three credits.

Hours to be arranged.

Professor Fletche

## RURAL SANITATION.

Professor Greaves.
Professor Ray B. West.
Assistant Professor Carter.

## JUNIOR COLLEGE COURSE

2. Parasitology. (Zoology 5). The classification morphology and life history of animal parasites. The disease-producing protozoans, flukes, tapeworms and round worms receive special study. Arthropods as external parasites and carriers of pathogenic organisms receive attention. Fall quarter. Four credits.

Lec. T. Th. S. 9:00; lab. M. 2:00 to 5:00. Mr.

## SENIOR COLLEGE COURSES.

3. Sanitation (Bacteriology 8). Principles of sanitation; nature of disease, its spread and means of prevention and disinfection; sanitary arranging and construction of farm buildings. Prerequisite, Bacteriology 1. Winter and Spring quarters. Three credits each quarter.

T. Th. S. 11:00.

Professor Greaves.

4. Sanitary Analysis. (Bacteriology 6). Methods used by the sanitary inspector in examining water, milk and other.

foods. Prerequisites, Chemistry 6 and Bacteriology 1 or 2. Breakage deposit \$2.50.

Time and credit to be arranged.

5. Dairy Bacteriology. (Lecture) (Bacteriology 5a). The bacteria of milk, butter and cheese; communicable diseases in their relation to the dairy; contamination by air, water, utensils; desirable and undesirable fermentation. Winter quarter. Two credits.

T. Th. 8:00.

Assistant Professor Carter.

6. RURAL WATER SUPPLY AND WASTE DISPOSAL. Methods of (a) supplying farm and rural communities with sanitary water; (b) handling waste of the farm and small town. Spring quarter. Three credits.

T. Th. S. 8:00.

Professor West.

7. DAIRY BACTERIOLOGY. (Laboratory) (Bacteriology 5b). Methods used in the bacteriological examination of milk and dairy products. May accompany Dairy Bacteriology 5. Breakage deposit, \$2.50. Winter quarter. Three credits.

Lab. M. W. F. 2:00 to 5:00. Assistant Professor Carter.

8. Sanitary Statistics. (Bacteriology 9). Vital statistics showing the effects of sanitary precautions upon health in cities and rural communities. Fall quarter. Two credits.

T. Th. 8:00.

Assistant Professor Carter.

#### AGRONOMY.

PROFESSOR STEWART.
ASSISTANT PROFESSOR PITTMAN.
MR. BRACKEN.
MR. ———
MR. HEYWOOD.

Note.—Students who major in Agronomy are required to take courses 1, 2 or 3, 6, 8 or 9, and 12. Irrigation 1 and Farm Management 2 will be accepted toward a major in Agronomy.

#### VOCATIONAL COURSES.

a. ELEMENTARY AGRONOMY. Practical information on crops and soils for short practical-course students. Winter quarter. Four credits.

Lec. M. W. F. 11:00; lab. M. 2:00 to 5:00.

Mr. Bracken and Mr.-

b. DRY-FARMING. The methods best adapted to the growing of profitable crops on arid lands; the treatment of the soil; the soils and crops best adapted to arid farming; the regions offering favorable conditions for its successful practice. Not given unless ten students apply. Winter quarter. Three credits.

T. Th. S. 10:00.

Mr. Bracken.

#### JUNIOR COLLEGE COURSES.

1. Cereal Crops. The history, cultivation, production and marketing of cereal crops; a basis for judging and grading plant products. Must be preceded or accompanied by Chemistry 1 and Botany 2. Winter quarter. Four credits.

Lec. M. W. F. 9:00; lab. T. 2:00 to 5:00.

Professor Stewart and Mr. Heywood.

2. Root Crops. Sugar-beets, potatoes, mangles, turnips, other root crops and beans. Cultural methods, market types and commercial possibilities are studied in detail. Must be preceded or accompanied by Chemistry 1 and Botany 2. Fall quarter. Four credits.

Lec. M. W. F. 9:00: lab. T. 2:00 to 5:00.

Professor Stewart and Mr. Heywood.

3. Forage And Miscellaneous Crops. Alfalfa, clovers, grasses and other crops. Methods of handling hay, meadow and pasture management and soiling crops are discussed. Must be

preceded or accompanied by Chemistry 1 and Botany 2. Spring quarter. Four credits.

Lec. M. W. F. 9:00; lab. T. 2:00 to 5:00.

Professor Stewart and Mr. Heywood.

#### SENIOR COLLEGE COURSES.

1a. Crop Production. Essentials in the production of principal field crops; small-grains, corn, potatoes, sugar-beets, alfalfa and pastures. Designed for students not in the School of Agriculture and for others wishing minimum work in crops. Must be preceded by Chemistry 1 and Botany 1 or 2. Spring quarter. Five credits.

Lec. M. T. W. F. 10:00; lab. F. 2:00 to 5:00.

Mr.	
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4. SEEDS AND WEEDS. Seeds and their impurities; quality and preservation of seeds; their storage, shrinkage, vitality, etc.; the common weeds of Utah; methods of identifying and eradicating them; field work. Prerequisites, Botany 2 and Agronomy 1 or 3. Not given unless ten students apply. Fall quarter. Two credits.

Lec. T. 1:00; lab. W. 2:00 to 5:00.

Mr.——	
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5. JUDGING AND GRADING CROPS. The various methods of scoring grains and other crops; judging crops and identifying varieties; types demanded by the market; grading of market types. Prerequisite, Agronomy 1; Agronomy 2 and 3 and Horticulture 1 preferred. Not given unless ten students apply. Spring quarter. Two credits.

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6. Soils. Review of the entire field of soil study; designed as a foundation course for all students of agriculture. Prequisite, Chemistry 1 (high school chemistry not adequate). Fall quarter. Four credits.

Lec. M. W. F. 11:00; lab. M. or Th. 2:00 to 5:00.

Professor Stewart and Assistant Professor Pittme

7. Comparative Soils. Soils of Utah; their origin, composition and agricultural value; soil provinces of the Unite States, especially those of the arid regions; the soil survey. Prerequisites, Agronomy 6 and Geology 2. Winter quarter. The credits.

T. S. 11:00.

Professor ---

8. Management Of Arid Soils. The composition, ture and management of soils of arid regions; special attent to water relations, alkali, rotations, manure, tillage and other problems in the management of arid soils. Prerequisite Agronomy 6 and Geology 2. Winter quarter. Four credits

Lec. T. Th. S. 10:00; lab. Th. 2:00 to 5:00.

Assistant Professor Pittm

9. PLANT BREEDING. Varieties of field crops and the adaptation, selection and improvement; attention to the method of plant breeding as practiced in America and Europe. Prerequites, Agronomy 1 and 2 or 3; Genetics (Zoology 7); and Brany 2. Spring quarter. Four credits.

Lec. M. W. F. 11:00; lab. M. 2:00 to 5:00.

Professor Stew

11. Advanced Laboratory in Soils. Chemical and rechanical analysis or special laboratory work. Three hours more, any quarter.

Hours to be arranged.

Assistant Professor Pittme

12. Seminar. Current agronomic literature; agriculture problems; assigned topics. Required of Seniors in agronomopen also to Juniors. Winter quarter. One credit.

Th. 1:00

Professor Steam

RESEARCH. Seniors specializing in agronomy may irch in any branch of the subject. Time and credit to ed with the instructor.

Professor Stewart and Assistant Professor Pittman.

HISTORY OF AGRICULTURE. (History 8). Developgriculture, with emphasis on social and scientific ne successive steps by which modern agriculture has s present status. Winter quarter. Two, three or four

F. 11:00. Professor Stewart and Mr. -

#### ANIMAL HUSBANDRY.

PROFESSOR CARROLL. PROFESSOR GEORGE B. CAINE. ASSISTANT PROFESSOR ALDER.

#### VOCATIONAL COURSE

LEDING AND MANAGEMENT. A non-technical course h the practice of feeding and management of differof livestock. Winter quarter. Five credits. except Saturday, 9:00. Professor Carroll.

#### JUNIOR COLLEGE COURSES.

ARKET Types. The judging of market types of tle, sheep and swine. Some score card practice is most of the work is comparative judging of groups Five credits.

Fall quarter Lec. T. Th. S. 9:00; lab. W. F. 2:00 to Professor Caine Winter quarter Lec. M. W. F. 11:00; lab. W. F. 0. Professor Caine.

ED TYPES. The origin, history and characteristics erent breeds of horses, cattle, sheep and swine, especial stress being laid upon their adaptability to western ditions. Fall quarter. Five credits.

Daily except Th. 10:00.

Professor Ca

3a. PRACTICAL FEEDING. (For students not majoring in a mal Husbandry.) How the animal uses its feed; classes of feed compounding rations for different purposes and for different classes of animals. Prerequisites, Agronomy 1 and 3 or 1a. A quarter. Five credits.

Daily, except Saturday, 8:00.

Professor Cari

6. BEEF CATTLE PRODUCTION. The practical methods of t production, including a consideration of range practice, feed for market, fitting for show and general care and management Winter quarter. Three credits.

T. Th. S. 9:00

Professor Ca

7. Horse Husbandry. Market types, handling of breing and growing horses, fitting for show and sale and pract methods of handling and training horses. Winter quarter. The credits.

(Not given 1921-22)

Professor Cai

8. Swine Management. The management of the bree ing herd, fattening for market and fitting for show. Spri quarter. Three credits.

T. Th. S. 9:00.

Professor Can

9. SHEEP HUSBANDRY. General care on range and far fattening for market, fitting for show and work in grading a sorting wool. Spring quarter. Three credits.

(Not given 1921-22.)

Professor Can

## SENIOR COLLEGE COURSES.

3. Animal Nutrition. The anatomy and physiology the digestive system; the purpose of nutrition; the theory at practice of feeding; with especial reference to Utah condition

requisites, Organic Chemistry or Physiology 2 and Agron-Ia. Winter and Spring quarters. Five credits each quarter. Daily except Saturday 8:00 Professor Carroll.

- 3b. Laboratory Course. Laboratory work including the lal feeding of different classes of livestock for different pures can be arranged for a limited number of students.
- 4. Principles Of Breeding And Herd Book Study. An lication of the principles of breeding to practical breeding rations; the place of animal breeding on the farm; methods selection; aids to selection; grading; cross breeding; line eding; inbreeding; herd books; pedigrees of noted individuals he important breeds. Prerequisites, Genetics. Spring quarter. credits.

Daily except Saturday, 9:00

Professor Carroll.

5. ADVANCED STOCK JUDGING. The judging of groups of nals of all classes. Attendance at the State Fair and at all ssible county fairs is required. Prerequisites, Animal Huslry 1 and 2. Fall quarter. Three credits.

Lab. M. T. Th. 2:00 to 5:00

Professor Caine.

10. THE FIELD OF ANIMAL HUSBANDRY. A brief survey of field of animal husbandry in relation to other branches of culture; the economics of the livestock business and a brief ideration of the various opportunities in livestock. Designed n informational course for students not registered in the bol of Agriculture. Fall quarter.

M. W. F. 9:00.

Professor Carroll.

- 20. Research. Advanced students may elect research in any phase of animal husbandry. Time and credit to be nged with the department.
  - 25. Seminar. Round table discussions of current literaand special phases of animal husbandry and dairying by ad-

vanced students and instructors of the department. One me ing a week. Time to be arranged.

Professors Carroll and Cai

#### POULTRY HUSBANDRY

#### VOCATIONAL COURSES.

a. Practical Poultry Raising. A study of the fundamental principles involved in successful poultry raising. Not given unless ten students apply. Winter quarter. Four credits.

Lec. M. W. F. 9:00; lab. W. 2::00 to 5:00.

Assistant Professor Ald

b. SHORT PRACTICAL COURSE. A practical course covering period of two weeks. The student can spend all day or half t day studying problems of successful poultry raising.

Time to be arranged.

Assistant Professor Ald

#### JUNIOR COLLEGE COURSES.

1. General Poultry. A study of breeds, judging, breeing, incubation, brooding, housing, feeding and marketing. Witter or Spring quarter. Four credits.

Lec. M. W. F. 11:00; lab. M. 2:00 to 5:00.

Assistant Professor Alde

1a. General Poultry. Same as Poultry 1 except that n laboratory work is given. Winter or Spring quarter. Thre credits.

M. W. F. 11:00.

Assistant Professor Alder

1b. General Poultry. This course is planned to meet the needs of Home Economic students. Not given unless ten student apply. Spring quarter. Two credits.

M. W. 11:00.

Assistant Professor Alder

2. Incubation and Brooding. Practical and experimental work; the factors which influence the hatching quality of eggs

the raising of chicks. Prerequisite, Poultry 1. Spring quarter.

M. W. 9:00.

Assistant Professor Alder.

3. POULTRY MANAGEMENT. The housing, care, feeding and agement of different breeds under western conditions. Presiste Poultry 1. Winter quarter. Two credits.

(Not given 1921-22.)

Assistant Professor Alder.

4. Breeds And Breeding. The origin and development of breeds and varieties of poultry; practice in judging; a review le literature on breeding for utility and exhibition. Prerequi-Poultry 1. Winter quarter. Three credits.

Lec. M. W. 10:00; lab. by special arrangement.

Assistant Professor Alder.

## SENIOR COLLEGE COURSES.

25. Research Work in special problems. Preisite, Poultry 1. Time and credit to be arranged.

Assistant Professor Alder.

26. Seminar. Current poultry literature studied; assigned lems and special topics. Winter quarter. One credit.

Time to be arranged.

Assistant Professor Alder.

27. POULTRY PRACTICE Special practice at the poultry s. Time and credit to be arranged.

Assistant Professor Alder.

# ART DEPARTMENTS. APPLIED ART.

Professor Fletcher.
Miss Maurine Peterson.

#### JUNIOR COLLEGE COURSES.

21. Design. General principles of design in pattern color, turnishing and costume. Winter quarter. Two credits.

Sec. a, T. Th. S. 11:00. Sec. b, T. Th. S. 8:00. Sec. c, M. W. F. 11:00. Professor Pa Professor Flea Miss Peter

23. Educational Course. Survey of design and col

applied to costume, posters, interior decoration and handwo the Public Schools. The aim will be to equip the student to intelligently the Industrial Arts text books. Winter qua Three credits.

T. Th. S. 11:00

Professor Flei

24. Home Improvement. Design in the architectural home buildings and grounds. Common errors in the compos of cottage exteriors, interiors and landscape gardens discussed and remedies suggested. For related work see Horticultus and Rural Architecture 10. Spring quarter. Three credits.

Lec. T. Th. 9:00; lab. F. 2:00 to 5:00. Professor Flet

26. Furniture Design.

Hours and credits arranged as in Art 27.

Professor Fleti

#### SENIOR COLLEGE COURSES.

22a. (Household Administration 22a) Home furnis and decoration. The principles of house and garden design, decoration, color floor and ceiling treatment, furniture and w finishing problems. Fall quarter. Four credits.

Lec. T. Th. S. 9:00; lab. Th. or F. 2:00 to 5:00.

Professor Fletc

22b. Home Furnishing. (Household Administration 2 Textiles and drapery, tableware, pottery, pictures, sculpt tlowers and the assembling of all features which go make home beautiful. Open to students in the Junior Colli Winter quarter. Four credits.

Lec. T. Th. S. 9:00; lab. Th. or F. 2:00 to 5:00.

ProfessorFletc.

Laboratory course in interior decoration. Any phase e work desired may be pursued. Intended for the specialist. ts and time to be arranged.

8. EDUCATIONAL COURSE. For those who want to teach nder the Smith-Hughes plan or in high schools in general. problems of teaching drawing, the crafts, costume design, or decoration, commercial design, etc. A knowledge of drawnd design. Three credits.

Not given 1921-22).

Professor Fletcher.

7. Studio. Three studio hours each week required for credit. Time must be selected within the studio time listed he hours filed with the instructor at the beginning of each

Studio hours daily, 2:00 to 5:00 and T. Th. S. 10:00 to Professor Fletcher and Miss Peterson.

POTTERY. Elementary building and casting by hand and simple firing and glazing. Two Advanced. Not given 1921-22.

CHINA DECORATION. Designing and decoration of rim plate, coupe plate and salt and peppers with unying designs. Two credits.

Decoration without outline of tray forms, cups and saucers or equivalent.

dits. Decoration of vase, sugar and creamer and one special problem. Two credits. Etching—Three pieces of incrusted work of accepted type. Problems must be ble to the instructor. Two credits.

Enamel—Three problems involving enamel on belleek or satsuma. Two credits. Lustre—Three decorative pieces of lustre of accepted type. Two credits. Painting on glass. Credits and problems arranged. Advanced. Credits and work arranged with instructor.

COOPER WORK. Watch fob, blotting pad, desk pad corners and paper knife. Two credits. Sawed hinges, napkin ring, candle stick sconce. Two credits. Raised bowl, etched tray, inkwell. Two credits. Repousse—Jewel case, crumb tray and letter rack. Two credits. Reading lamp, collar box or casserole with carved decoration. Two credits. Advanced raising—Vases, jardiniers, electric fixtures. Two problems. Two

Enameling and jeweling—Three problems. Two credits.

JEWELRY. Pierced brooch or tie pin, pierced brooch with box setting, hat pin, brooch buttons with wire rims. Two credits.

- Design and make three brooches with settings using-carving, chasing 2. Design and make three brothers with settings using carving, the wire, or filigree decoration. Two credits.

  3. Cone or round head hat pin, box set ring, scarf pin. Two credits.

  4. Pendant necklace or three rings of different type. Two credits.
- 5. Advanced enameling, filigree, chain making, etc., of advanced forn be pursued, credit being allowed according to the work done.

27e. BASKETRY.

Sewed.

1. Spiral "Lazy Squaw" tray, Poma or Ray Stitch basket. Two credits.

2. Figure 8, Lace stitch baskets. Two credits.

3. Apache stitches and one special problem. Two credits.

Reed, Willow, etc.

 Small plain basket, flower basket, fruit basket. Two credits.
 Lined open work workbasket, mellon basket, covered bowl, tray. Two c 3. Large problem as reading lamp. Two credits.

LEATHER WORK.

Etched mat, pierced bag, dyed scissors or manicure case. Two credits.

Tooled purse, card case and wallet or small bag. Two credits. Incised and embossed mat, magazine cover, small problem involving 1 Two credits.

4. Modeled handbag-hued. Two credits.

Advanced embossing, tooling and making up may be done, credit allowe cording to work done.

27g. LETTERING. Show Card Writing.

1. Brush strokes. 8 plates, one stroke Egyptian alphabet. Standard old Ro Two credits.

2. One stroke alphabets, 5 simple cards and 2 finished types.

3. Decorative scrolls and layouts. 12 plates. Two credits. 4, 5, 6. Decorative initials and various stunts in ornamentation. Practical work. 36 plates. Two credits each.

Sign Painting.

Same as for show card. Two credits.
 Standard types in oil and water color. 12 plates. Two credits.
 Plain painting on glass and simple ornament. 8 plates. Two credits.

4, 5. Gold leaf signs. 12 plates. Two credits each.

6. Large signs and poster lettering. Advanced work. Credit arranged.

Illumination and Engrossing.

 Mastery of old Roman script and capitals. Two credits.
 Mastery of two other alphabets with decorative finials, etc. Two credits.
 Designing Christmas cards, memorials and quotations with black and colors. Two credits.

4. Advanced fancy initials, gold illumination and magazine work. Credits be arranged beforehand with applicant.

Lettering for illustration.

1. Standard types and spacing. 12 plates. Two credits.

27h. FABRIC DECORATION.

1. Stenciling of table runner, pillow cover, curtain or equivalent. Two credits.

2. Block printing on velvet, block printed handbag in color (single color), block printed textile with more than one color block.

3. Batik scarf in two colors, Batik with three or more colors, lamp shade a credite.

equivalent. Two credits.
4. Advanced work in any of the above processes, also in Japanese embroidery # dyed work. Credit and work arranged.

27i. WOOD ORNAMENTATION. Enamlac and Scraffito.

1. Ornamentation with enamel of three bottle forms as vases and wooden form as trays, jewel cases, etc. Two credits.

Serving tray, toilet set (comb, brush, tray, etc.) in ivory or celluloid. Two

Book ends and letter rack incised, stained. Two credits. Advanced scraffito, jesso inlay, and marqueterie may be taken up. Credits problems to be arranged.

yrography.

s.

Designing and burning of two boxes, a shelf, and one selected problem. Two

Advanced work involving staining, etc. Problems selected. Two credits.

Care in use of tools, incising and veining and flat work. Two credits. Roughing in and setting down problems without heavy modeling. Cononal. Two credits.

Simple leaf forms and fruit.

Advanced modeling-credits arranged.

7j. (Rural Architecture 10-11.)
Unity, proportion and massing as expressed in plans of simple facades. 6

Common errors and composition of cottage faeades. 6 plates. Two credits. Composition in details and adjustment of masses in more important building. Two credits.

Composition in Egyptian, Assyrian and Greek styles of architecture. 6 plates. Roman, Romanesque, Gothic styles of architecture. 6 plates. Two credits.

Palladian and modern styles. 6 plates. Two credits.

7k. Special Design. or Art Needlecraft.

Borders and edges, white work and simple color design. 5 plates.

Advanced design for embroidery—credit arranged.
ostume Design and Illustration. Prerequisite, Textiles 2a and 5b.
Advanced practical design from historic costume motifs. 12 12 plates. Two

Original designs from nature motifs. 12 plates. Two credits. Details of costume drawing and the draped figure. Two credits.

Advanced work for magazine and catalog layouts and the technic of pen, and color work. Credits arranged.

listoric Ornament.

Egyptian, Assyrian, Persian and Gothic ornament. 12 plates. Two credits. Greek, Roman and Byzantine ornament. 6 plates. Two credits. Romanesque, Renaissance and French ornament. 6 plates. Two credits.

ommercial Design.

Special work in design for manufactured textiles, wall paper, lighting fixetc. may be pursued by application to the head of the department. Credit ar-

Note: One or more examples of each student's work may be ned by the department but compensation may be allowed naterial.

#### FINE ART.

PROFESSOR POWELL.

#### JUNIOR COLLEGE COURSES.

1. Composition. Nature analysis and application to design. A study of composition of line and form and the principles of good taste. Prerequisite or parallel to Textiles and Clothing 1. Fall quarter. Two credits.

Sec.a—T. Th. S. 11:00, Professor Powell. Sec. b—T. Th. S. 8:00, Professor Fletcher. Sec. c—M. W. F. 11:00, Miss Peterson.

2. ART APPRECIATION. A study of the principles of composition and design and their application to painting, sculpture and architecture. Spring quarter. Two credits.

Sec. a—T. Th. S. 11:00, Professor Powell. Sec. b—T. Th. S. 8:00, Professor Fletcher. Sec. c—M. W. F.-11:00, Miss Peterson.

3. HISTORY OF ART AND APPRECIATION. Illustrated lectures and discussions, given so students may gain an acquaintance with painting, sculpture and architecture and develop a taste for the best art. Given if ten or more students apply. Winter quarter. One credit.

T. 1:00

Professor Powell.

4a. HISTORY OF ARCHITECTURE. Illustrated lectures and assigned readings covering the development of architecture. Fall quarter. Three credits.

M. W. F. 11:00.

Professor Powell

4b. HISTORY OF ART PAINTING. Illustrated lectures and asassigned readings on evolution and development of painting. M. W. F. 11:00. Professor Powell. 4c. HISTORY OF SCULPTURE. Illustrated lectures and asned readings on the development of sculpture. Spring quar-Three credits.

M. W. F. 11:00.

Professor Powell.

5. Studio. Open to all students of the College. The work udes a thorough training in drawing, painting, modeling, spective and composition. Students may register any quarter for one or more courses. Credits will be given for the amount work completed in each course.

Studio daily, 2:00 to 5:00.

Professor Powell.

- i. Freehand Drawing. A study of the fundamental principles of movement proportion. Outline representations of simple objects as exercises in developing owners of observation and the training of the hand. Six hours a week. Two ts.
- ?. Free Hand Drawing. The study of light and shade. Drawings with pencil, toal and ink from objects in groups and from casts of architectural ornaments parts of the figure. Six hours a week. Two credits.
- 3. Free Hand Drawing. The study of light and shade and values and the sentation of the third dimension. Drawings with pencil, charcoal and ink from of architectural ornaments and parts of the figure and still life groups. Six s a week. Two credits.
- l. Freehand Drawing. Drawing in charcoal from casts of parts of the figure. hours a week. Three credits.
- P. Freehand Drawing. Drawing in charcoal of reproduction of antique figures. hours a week. Three credits.
- 3. Freehand Drawing. Charcoal drawing from the antique Nine hours a . Three credits.
- PAINTING. Drawing with crayons of groups of objects with one or more s. Five credits.

  Daily, 2:00 to 5:00.
- PAINTING. Painting in oil, water colors or pastels from still life. Five credits. Daily, 2:00 to 5:00.
- B. PAINTING. Painting in oils, water color, or pastels from flowers and fruites and still life. Five credits.

  Daily, 2:00 to 5:00.
- id.
  DRAWING from the costumed model. Five credits.
  Daily, 2:00 to 5:00.
- 2. Drawing and pairing from the costumed model. Five creditandly, 2:00 to 5:00.
- Drawing from life. Five credits.

- Modeling in clay of simple ornaments in relief. Six hours a week.
   Two credits.
- 2. Modeling from ornaments in the round and from casts of parts of the body. Six hours a week. Two credits.
- 3. Modeling. Modeling from the torso, feet, arms, and limbs. Six hours a week. Two credits.
- 5f.
  1. Modeling. Copies of architectural ornaments, using plants, animals and the human figure. Nine hours a week. Three credits.
- 2. Modeling. Complete figure from cast. Modeling of the complete figure in the round. Nine hours a week. Three credits.
- 3. Modeling. Studying part of the body from the nude model. Nine hours a week. Three credits.
- 5g. 1, 2, 3. Modeling the whole figure from the nude model. Five credits.

Daily, 2:00 to 5:00.

5h.
1, 2, 3. Modeling of portrait busts and monumental compositions.

Five credits.

Daily, 2:00 to 5:00.

Si.

- 1. PERSPECTIVE. A course in the theory of parallel perspective with its application to cylinders and simple objects. Three hours a week. One credit.
- 2. Perspective. A course in the theory of oblique perspective and application. The study of objects, interiors and buildings. Three hours a week. One credit.
- 3. Perspective. The theory of aerial perspective and its aplication in drawing buildings, landscapes, etc. Three hours a week. One credit.
- 5).
  1. Composition. The study of space arrangement and representation by line.
  Three hours a week. One credit.
  - 2. Composition. Landscape composition. Three hours a week. One credit.
- 3. Composition. Figure composition in relation to architecture. Portrait composition and the composing of two or more figures. Three hours a week. One credit.

5k.

- 1. ILLUSTRATION. This course consists of elementary problems in decoration design, such as initial letters, head and tail pieces, book plates and cartooning and caricature. Six hours a week. Two credits.
- 2. ILLUSTRATIVE COMPOSITION. Studies in composition of landscape, from life, studies of drapery and interiors. Six hours. Two credits.
- 3. EXECUTION OF ILLUSTRATION from given subjects intended to stimulate and develop the inventive faculty of the student. Five credits.

Daily, 2:00 to 5:00.

- 5e.
  1. Advertising Illustration. Designing of advertising arrangement. Clippings from newspapers and magazines are arranged in the most effective ways. Placing of advertising material on the page and the most effective page arrangement considered. Six hours. Two credits.
- 2. PICTORIAL ADVERTISING. The designing of pictorial advertisements and the drawing of simple objects, such as shoes, purses, pottery, simple machines and furniture. Six hours. Two credits.
- 5m.

  1. Poster Composition. The principles of poster composition and the designing of posters for farm machines, automobiles and furniture. Five credits. Daily, 2:00 to 5:00.

2. Posters and Book Covers. Designing of one sheet posters and book covers in black and white and in color, and the study of methods of poster reproduction. Five credits.
Daily, 2:00 to 5:00.

- 3. Posters. Making of designs and methods of enlarging posters. Making of posters for advertising pageants, the theatre, health and pleasure rescorts, fairs and expositions. Five credits.

  Daily, 2:00 to 5:00.
- 6a. Anatomy, Animal Construction. The construction of animals as illustrated by charts and blackboard sketches to give a practical working knowledge of different animals so that many may be drawn without models. Fall quarter. One credit.

T. 1:00. Professor Powell.

6b. Anatomy, Figure Construction. The construction of the human figure with charts and blackboard sketches, to give a working knowledge of the human figure so that it may be drawn in different positions without a model. Winter quarter. One credit.

T. 1:00.

Professor Powell.

бс. Anatomy. Illustrated lectures on the skeleton and the plastic anatomy of the human figure. Spring quarter. One credit. T. 1:00.

Professor Powell.

7. Aesthetics (English 21.) The essentials common to all the fine arts. The basis of sound judgment and appreciation of poetry, painting, music, sculpture and architecture. Spring quarter. Five credits.

Daily, except Th. 10:00.

Professor Fletcher.

## BACTERIOLOGY AND PHYSIOLOGICAL CHEMISTRY.

PROFESSOR GREAVES. ASSISTANT PROFESSOR CARTER. Mr. Lund.

JUNIOR COLLEGE COURSES.

1. GENERAL AGRICULTURAL BACTERIOLOGY. Biology and

significance of bacteria. Breakage deposit, \$2.50. Fall, Winter and Spring quarters. Five credits each quarter.

Fall quarter—Agricultural Bacteriology.

Lec. M. W. F. 11:00; lab. W. F. 2:00 to 5:00.

Winter quarter-General Bacteriology.

Lec. M. M. F. 11:00; lab. W. F. 2:00 to 5:00.

Professor Greaves.

Spring quarter—Household Bacteriology.

Lec. T. Th. S. 8:00; lab. W. F. or T. Th. 2:00 to 5:00.

Assistant Professor Carter.

14. School Sanitation. Sanitary problems confronting the teacher in the rural and urban district. Fall quarter. Three credits.

T. Th. S. 11:00.

Professor Greaves.

#### SENIOR COLLEGE COURSES.

3. Pathogenic Bacteriology. (Rural Public Health.) Fundamentals, morphology, biology, function, etc. The pathogenic bacteria are considered in relation to specific diseases, especially with regard to the subject of immunity. Prerequisite, Bacteriology 1 or 2. Breakage deposit, \$2.50. Spring quarter. Five credits.

Lec. M. W. F. 11:00; lab. W. F. 2:00 to 5:00.

Professor Greaves.

4a. Soil Bacteriology. (Lecture.) Bacteria considered in relation to soil fertility. Influence of physical and chemical properties of a soil upon its bacterial life; ammonification, nitrification and nitrogen fixation. Chemical methods of nterpreting bacteral fermentations. Winter quarter. Two credits.

T. Th. 1:00.

Professor, Greaves.

4b. Soil Bacteriology. (Laboratory.) Methods used in bacteriological investigation. May accompany Bacteriology 4a.

Prerequisite, Bacteriology 1. Breakage deposit, \$2.50. Winter quarter. Three credits.

Lab. M. W. F. 2:00 to 5:00.

Professor Greaves.

5a. DAIRY BACTERIOLOGY. (Lecture). '(Rural Sanitation 5). The bacteria of milk, butter and cheese; communicable diseases in their relation to the diary; contamination by air, water, utensils, desirable and undesirable fermentation. Winter quarter. Two credits.

T. Th. 8:00.

Assistant Professor Carter.

5b. DAIRY BACTERIOLOGY. (Laboratory.) (Rural Sanitation 7.) Methods used in the bacteriological examination of milk and dairy products. May accompany Bacteriology 5a. Prerequisite, Bacteriology 1 or 2. Breakage deposit, \$2.50. Winter quarter. Three credits.

Lab. M. W. F. 2:00 to 5:00.

# Assistant Professor Carter.

6. Sanitary Analysis. (Rural Sanitation 4.) Methods used by the sanitary inspector in examining water, milk and other foods. Prerequisites, Chemistry 6 and Bacteriology 1 or 2. Breakage deposit, \$2.50. Time and credit to be arranged.

Professor Greaves.

7. Research. The laboratory and library facilities are especially arranged for advanced students in bacteriological investigation in agriculture, household science, the industries, sanitary science and veterinary science. Time and credit to be arranged.

Professor Greaves.

8. Sanitation. (Rural Sanitation 3.) Principles of sanitation; nature of disease, its spread and means of prevention and disinfection; sanitary arranging and construction of farm buildings. Prerequisite, Bacteriology 1 or 2. Whiter and Spring quarters. Three credits each quarter.

T. Th. S. 11:00.

Professor Greaves.

9. Sanitary Statistics. (Rural Sanitation 8.) Vital statistics showing the effects of sanitary precautions upon health in cities and rural communities. Fall quarter. Two credits.

T. Th. 8:00.

Assistant Professor Carter.

10. Physiological Chemistry. (Chemistry 7.) The transformations going on in the plant and animal organism. Prerequisite, Chemistry 2 or 3.

Sec. 1. Fall quarter. Five credits. Daily, except Sat-

urday 8:00.

Sec. 2. Spring quarter. Five credits. Daily, except Thursday, 11:00.

Professor Greaves.

11. Physiological Chemistry. (Laboratory.) May accompany the preceding course. Breaking deposit, \$2.50. Fall quarter. Two credits.

Assistant Professor Carter.

13. ADVANCED BIOCHEMISTRY. The chemicals in the plant and animal organism. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 9:00.

Professor Greaves.

15. Advanced Biochemistry. Bacteriological and chemical methods used in the diagnosing of diseases. Winter quarter. Five credits.

Hours to be arranged.

Professor Greaves.

### BOTANY.

Professor George R. Hill, Jr. Associate Professor Richards. Mr. Nuffer.

Courses 2, 3, 4, 5 or 8 or 11, and 13 required of students majoring in Botany.

## VOCATIONAL COURSE.

a. ELEMENTARY PLANT PATHOLOGY. Plant diseases of

Utah, their nature, cause and control. For practical course students. Winter quarter. Three credits.

Lec. S. 12:00; lab. F. 2:00 to 5:00.

Professor Hill, Associate Professor Richards, Mr. Nuffer.

## JUNIOR COLLEGE COURSES.

1. General Botany. A brief survey of the field of plant ife; the nature and development of plants; plant parts and their unctions; the food of plants; the relation of plants to human needs; noteworthy wild and cultivated plants.

Sec. 1. Fall quarter. Five credits.

Lec. M. W. F. 9:00; lab. T. Th. 2:00 to 5:00.

Sec. 2. Spring quarter. Five credits.

Lec. M. W. F. 9:00; lab. W. F. 2:00 to 5:00.

Associate Professor Richards and Mr. Nuffer.

2a, 2b, 2c. Plant Physiology, Anatomy, Mophology ND Classification. Plant physiology in relation to crop proluction is the basis of this course. Designed especially for stulents in agriculture. Required for major or minor in botany. Prerequisite or parallel, Chemistry 1. Students may register for sotany 2b or Botany 2c, without 2c only by permission. Fall, Vinter and Spring quarters. Five credits each quarter.

Lc. Sec. 1. M. W. F., 8:00; Sec. 2, T. Th. S. 8:00.

Labs. M. or T. and Th or. F. 2:00 to 5:00.

Professor Hill and Mr. Nuffer.

# SENIOR COLLEGE COURSES.

3. FLOWERING PLANTS. Our common plants and their retionships; special emphasis given to economic plants. Two ectures and one, two or three laboratory periods. Prequisite, otany 1 or Botany 2. Spring quarter. Three, four or five credits.

Lec. Th. S. 10:00; lab. Th. 2:00 to 5:00 and any other iter.

Associate Professor Richards and Mr. Nuffer

3a. A CONTINUATION OF COURSE 3, extending through the

summer. A consideration of the general summer flora or of particular families and their distribution. A laboratory course. Prerequisite Botany 3. Two to five credits according to work done.

Associate Professor Richards and Mr. Nuffer.

4. PLANT PHYSIOLOGY. An advanced course dealing with the water relations of plants; absorption, metabolism and growth and factors affecting it. Prerequisite, Botany 2. Five credits.

(Not given in 1921-22). Professor Hill.

5. PLANT PATHOLOGY. The history, nature, cause and control of plant diseases. Prerequisite, Botany 1 or 2. Fall quarter. Five credits.

Lec. M. W. F. 10:00; lab. M. F. 2:00 to 5:00.

Associate Professor Richards

6. Mycology. Winter quarter. Three credits. Lec. T. Th. 11:00; lab. T. Th. 2:00 to 5:00.

Associate Professor Richards

7. Morphology.

(Not given 1921-22.)

8. Materials and Methods in Botanical Technic Collection and preservation of botanical specimens. Preparation of botanical materials and slides for class room study and exhibition purposes. Designed particularly for teachers of botany Prerequisite, Botany 1 or 2. A laboratory course. Any quarter. Two to five credits.

Associate Professor Richards

- 10. Dendrology. Structure and properties of wood; eco nomic woods, their identification and uses. Prerequisite, Bot any 1 or 2. Physics 1 should also precede the course. One lectur and one laboratory period. Spring quarter. Two credits. Tim to be arranged.

  Professor Hil
  - 11. Ecology. The distribution and adaptation of plant

in relation to temperature, nature, light, soil alkali and other environmental factors.

(Not given in 1921-22.)

- 12. Seminar. Current literature in the field of botany. One hour a week. Fall, Winter and Spring quarters. One credit each quarter. Time to be arranged.

  Professor Hill.
- 13. Research. Open to all qualified Senior College students. Time and credit to be arranged.

Professor Hill or Associate Professor Richards.

## BUSINESS ADMINISTRATION.

Professor Wanlass, Professor P. E. Peterson. Professor M. H. Harris. Mr. Clawson.

## VOCATIONAL COURSE.

a. Economics of Business. An elementary course dealing with the principles of economics, particularly as they apply to the organization, financing and managing of business enterprises. Winter quarter. Three credits.

M. W. F. 11:00.

Mr. Clawson.

## JUNIOR COLLEGE COURSE

1. Principles of Business. An introductory course in which the fundamental principles underlying the organization, financing and managing of business institutions are studied. A survey of the whole field of business activity is made, preparatory to more intensive study in the advanced courses in this department. Fall and Winter quarters. Three credits, each quarter.

M. W. F. 10:00.

Professor Wanlass.

#### SENIOR COLLEGE COURSES.

2. Credits and Collections. After a study of the nature and importance of credit in the modern business world, careful attention will be given to the practical work of the credit man and credit department. Consideration will also be given to credit institutions, credit forms, statements, methods of collection and legal remedies. Prerequisites, Economics 1 or 2 and Business Administration 1. Spring quarter. Three credits.

M. W. F. 10:00.

Professor Wanlass.

3. Business Finance. Various types of business organizations will be considered and attention will be given to the methods of providing capital and managing the current finances. Special consideration given to the financing of small rural enterprises. Prerequisites, Economics 1 or 2 and Business Administration 1. Spring quarter. Three credits.

(Not given 1921-22.)

Professor M. H. Harris.

4. Labor Management. Labor problems studied from the standpoint of the employer. Special consideration given to the principles of executive control, hours of work, working conditions and various methods of attaining greater efficiency. Prerequisites, Economics 1 or 2 and Business Administration 1. Fall quarter. Three credits.

T. Th. S. 10:00.

Mr. Clawson.

5. Scientific Management. A careful study will be made of the principles and the advantages and disadvantages of scientific management. Prerequisites, Economics 1 or 2 and Business Administration 1. Fall quarter. Three credits.

M. W. F. 3:00.

Professor Peterson.

6. Insurance and Insurance Accounting. (Accounting 3b). A discussion of fundamental principles of insurance. Attention will be given to the practices of modern insurance com-

panies as they affect the insured, the beneficiary and the State. Prerequisite, Economics 1 or 2. Three credits.

(Not given 1921-22.)

7.Railway Traffic. Railway tariffs, methods of packing, routing of shipments, freight classification and shipping documents will form the subject matter of this course. Prerequisites, Economics 1 or 2 and Business Administration 1. Alternates with Business Administration 8. Three credits.

(Not given 1921-22.)

8. Business and Agricultural Statistics. Consideration will be given to the meaning and application of statistics, statistical methods, sources of statistical information and the formulation of business barometers. Prerequisites, Economics 1 or 2 and Business Administration 1. Alternates with Business Administration 7. Spring quarter. Three credits.

T. Th. S. 11:00.

Professor Wanlass.

## CHEMISTRY.

Professor R. L. Hill.
Professor F. L. West.
Professor Greaves.
Assistant Professor Hirst.
Assistant Professor Maeser.

## JUNIOR COLLEGE COURSES.

- 1. INORGANIC CHEMISTRY. The properties and preparaion of the elements and their ordinary compounds. The quanitative laws of chemical combination and their applications. The ffects of temperature and concentration in displacing chemical quilibria.
- Sec. 1. Arranged for girls not majoring in pure science. rerequisite, Physics 1 or 3. Winter and Spring quarters. Four redits each quarter.

Lec. M. W. F. 9:00; lab. M. or F. 2:00 to 5:00.

Sec. 2. Fall and Winter quarters. Five credits each quarte

Lec. T. Th. S. 8:00; lab. M. W. 2:00 to 5:00.

Sec. 3. Winter and spring quarters. Five credits eac quarter.

Lec. M. W. F. 11:00; lab. W. F. 2:00 to 5:00.

# Assistant Professor Maese

1a. INORGANIC CHEMISTRY. A more advanced course i inorganic chemistry. Prerequisite, high school chemistry. Fa and Winter quarters. Five credits each quarter.

Lec. T. Th. S. 9:00; lab. M. W. 2:00 to 5:00.

Assistant Professor Mase

1b. A CONTINUATION OF CHEMISTRY 1a. Spring quarter. Five credits.

Lec. T. Th. S. 9:00; lab. W. F. 2:00 to 5:00.

# Assistant Professor Maese

2. Organic Chemistry. Fundamental principles of organic chemistry. The chemistry of the carbon compounds. Special attention will be paid to the chemistry of proteins, carbo-hydrates and fats. Prerequisite, Chemistry 1 or 19 Fall and Winter quarters. Four credits each quarter.

Lec. M. W. F. 10:00; lab. W. or F. 2:00 to 5:00.

## Professor Hill.

3. Organic Chemistry. A course arranged especially for students in home economics. This course in most respects will duplicate the lecture work in Chemistry 2. Special emphasis will be placed on the chemistry of proteins, carbohydrates, fats food adulterants, preservatives, common disinfectants and anaest thetics. Prerequisite, Chemistry 1 or 1a. Fall and Winter quarters. Four credits each quarter.

Lec. T. Th. S. 11:00; lab. W. or F. 2:00 to 5:00.

Professor Hil

3a. Organic Chemistry. A laboratory course dealing h the fundamental principles of organic chemistry. Designed students who have had Chemistry 2 or 3. Fall or Winter arter. Two credits.

Lab. M. W. 2:00 to 5:00.

Professor Hill.

4. QUALITATIVE ANALYSIS. A course in the theory and ctice of inorganic qualitative analysis. Prerequisite Chemy 1. Winter and Spring quarters. Three credits each quar-

Lec. T. 2:00; lab. T. 3:00 to 5:00 Th. F. 2:00 to 5:00.

Assistant Professor Hirst.

# SENIOR COLLEGE COURSES.

6. QUANTITATIVE ANALYSIS. A course in the theory and lication of the fundamental principles of gravimetric and voluric analysis to inorganic agricultural and food analysis. Presiste, Chemistry 4. Winter and Spring quarters. Three credeach quarter.

Lec. Th. 2:00; lab. Th. 3:00 to 5:00; T. F., 2:00 to 5:00.

Assistant Professor Hirst.

- 7. Physiological Chemistry. (Bacteriology and Physiocal Chemistry 10.) The chemical transformations occurin plant and animal organisms. Prerequisite, Cemistry 2 or Five credits.
- Sec. 1. 'Fall quarter. Daily, except Saturday at 8:00.
- Sec. 2. Spring quarter. Daily except Thursday at 11:00.

  Professor Greaves.
- 8. Industrial Chemistry. The student will study the aption of chemistry in the manufacture and uses of various tances such as cements, fertilizers, gases, explosives, paints, ients, soaps, sugar, starch, paper, potash, salt, sulphuric acid, in the smelting of ores. Arrangements will be made for class to visit the leading industrial plants of the State. Three

lectures and thirty-six hours of field work visiting industrial plants.

Not given unless requested by 10 students.

9. CHEMISTRY OF TEXTILES. (Textiles 2c.) Chemical methods for the identification and estimation of the textile fibres, including complete quantitative determination of cotton, wool, silk and linen substances in fabrics. Chemistry of dyeing and bleaching. Prerequisites, Chemistry 3, Textiles and Clothing 2a and 2b. Spring quarter. Three credits.

Hours to be arranged.

Assistant Professor Hirst.

- 10. Special Course in Quantitative Analysis. Prerequisite Chemistry 6. Time and credit to be arranged with instructor.
  - a. Water analysis.
  - b. Food analysis.
  - c. Soil analysis.
  - d. Urine analysis.
  - e. Gas analysis.

Assistant Professor Hirst.

13. General Organic Reactions. The more important reactions employed in synthetic organic chemistry. Prerequisite, Chemistry 2 or equivalent. Spring quarter. Three credits.

T. Th. S. 11:00.

Assistant Professor Hirst.

14. The Nitrogen Compounds. A course devoted primarily to the proteins, alkaloids and purine derivatives. Prerequisite, Chemistry 2. Winter quarter. Two credits.

Hours to be arranged.

Professor Hill.

15. Organic Preparations. An advanced laboratory course in practical laboratory methods of synthetic organic chem-

istry. Prerequisite, Chemistry 2. Fall or Winter quarter. Three credits.

Time to be arranged. Assistant Professor Maeser.

16. Physical Chemistry. (Physics 5). The kinetic theory, solutions, thermo-chemistry and electro-chemistry. Prerequisites, Chemistry 1 and Physics 1. Fall and Winter quarters. Three credits each quarter.

M. W. F., 8:00.

Mr. Edlefsen.

17. HISTORY OF CHEMISTRY. Fall, Winter and Spring quarters. Two credits each quarter.

(Not given 1921-22.)

18. RESEARCH. Senior students specializing in chemistry may elect research in any branch of the subject. Time and credit to be arranged with the instructor. Professor Hill.

### DAIRY HUSBANDRY.

PROFESSOR CAINE. ASSISTANT PROFESSOR WILSTER.

## IUNIOR COLLEGE COURSES.

1. ELEMENTS OF DAIRYING. The secretion and composition of milk; testing for fat, acid and adulterants; dairy sanitation; pasteurization; separation; making of butter and cheese. Fall or Winter quarter. Five credits.

Lec. M. W. F. 9:00: lab. T. Th. 2:00 to 5:00.

Assistant Professor Wilster

2. MARKET MILK. The production, preparation, marketing and food value of sanitary, certified, modified and fermented milk. Winter quarter. Three credits.

M. W. F., 11:00.

Assistant Professor Wilster.

3. Dairy Technology. The manufacture of renovated butter, whey butter, oleomargarine, dried and condensed milk, milk sugar and casein. Spring quarter. Three credits.

Lec. T. Th. 11:00; lab. M. 2:00 to 5:00.

Assistant Professor Wilster.

4. ICE CREAM AND ICES. Spring quarter. Three credits. Lec. T. Th. 9:00; lab. T. 2:00 to 5:00.

Assistant Professor Wilster. SENIOR COLLEGE COURSES.

5. Buttermaking. Designed to meet the needs of the creameryman. Prerequisite, Dairying 1. Time and credit to be arranged.

Assistant Professor Wilster.

6. Cheese Making. The manufacture, curing and storage of the various standard kinds of cheese. Prerequisite, Dairy 1. Time and credit to be arranged

Assistant Professor Wilster.

7. Seminar and Research Work. Important dairy subjects; a digest of recent dairy work of the experiment station. Time and credit to be arranged with the department.

Professor Caine and Assistant Professor Wilster

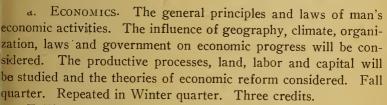
10. Dairy Production. A brief review of breeds of dairy cows; starting a herd; systems of herd records; calf feeding; herd management. Each student submits an original plan of a dairy farm; estimating values of property, expense of operation and profits to be derived. Spring quarter. Six credits.

Daily, except Saturday 10:00.

Professor Caine

## ECONOMICS.

Professor M. H. Harris Professor Wanlass. Professor Brossard. Mr. Clawson. VOCATIONAL COURSE



T. Th. S. 9:00.

Mr. Clawson

## JUNIOR COLLEGE COURSES.

1. General Economics. After a brief survey of man's economic development, a careful study is made of those fundamental laws and principles that govern our modern economic life. Attention is also given to present economic problems preparatory to a more intensive study in the advanced courses in this department. Fall, Winter and Spring quarters. Three credits each quarter.

Sec. 1, M. M. F. 8:00. Sec. 2, M. W. F. 11:00. Professor Wanlass
Professor Harris

3. ECONOMIC DEVELOPMENT OF THE UNITED STATES. A critical study will be made of the development of agriculture, industry, commerce, transportation, banking, labor organizations, etc., in the United States from the Colonial Period to the present time. Fall and Winter quarters. Three credits each quarter.

T. Th. S. 8:00.

Professor Harris.

#### SENIOR COLLEGE COURSES.

2. General Economics. A comprehensive study of the fundamentals of economic theory Prerequisite, High Schoo Economics or Senior College standing. Winter and Spring quarters.

T. Th. S. 10:00.

Professor Harris

4. AGRICULTURAL ECONOMICS. (Agricultural Economics 7.) After a survey of the whole field of economics, special attention will be given to those principles and problems most closely related to rural life and farming. Perrequisite, Economics 1 or 2. Fall quarter. Three credits.

T. Th. S. 9:00.

Professor Brossard

5. Labor Problems. Study of the labor situation from the social point of view. Special attention given to labor problems and methods of securing industrial peace. Prerequisite, Economics 1. Spring quarter. Three credits.

T. Th. S. 10:00.

Mr. Clawson

6. Money and Credit. The nature, development and uses of money and credit. Special attention given to bimetalism the gold standard, the money market and the relation of money and credit to prices. Fall quarter. Three credits.

M. W. F. 9:00.

Professor Harris

7. Banking. After a brief survey of the development of banking in foreign countries and in the United States, our present banking organization and practices will be critically studied Special attention given to the Federal Reserve System. Prerequisite, Economics 1 or 2. Winter quarter. Three credits.

M. W. F. 9:00.

Professor Harris

8. Banking Practice. A technical course treating of the internal problems of bank organization. The emphasis is placed

not upon the routine of bank operation, but upon the larger problems of management, not upon clerical work, but upon work of official responsibility. Banking technic will be studied from the standpoint of functions, rather than from that of bank departments. Prerequisites, Economics 6 and 7. Spring quarter. Three credits.

M. W. F. 9:00.

Professor Harris.

9. Public Finance. The fundamental principles of public expenditures, revenues and fiscal administration. Practices of different nations compared. Prerequisite, Economics 1 or 2. Fall quarter. Three credits.

T. Th. S. 11:00.

Professor Wanlass.

10. TAXATION. A critical examination of the tax systems of the federal, state and local governments. Special attention given to the tariff, property tax, income tax and the various business taxes. Prerequisite, Economics 1 or 2. Winter quarter. Three credits.

T. Th. S. 11:00.

Professor Wanlass.

11. COMMERCE AND COMMERCIAL POLICIES. Attention given to the fundamentals of trade and commerce, to the methods of increasing, limiting and directing American trade and to commercial policies. Prerequisite, Economics 1 or 2. Fall quarter. Three credits.

T. Th. S. 10:00.

Professor Harris.

12. CURRENT ECONOMIC PROBLEMS. A reading and research course designed for senior and graduate students who are majoring in economics and related subjects. Special reports will be made on current economic problems and literature. Fall, Winter and Spring quarters. One credit each quarter. Time to be arranged.

The Department.

## EDUCATION AND PEDAGOGY

Professor Henry Peterson.
Professor Evans.
Assistant Professor Oberhansley.
Assistant Professor Kewley.

#### VOCATIONAL COURSE

a. Junior Extension Leadership. This course includes one week's intensive training at the Agricultural College in project leadership. Each person registered must lead a standard club of at least 5 members all registered in the same project, until the project is completed. The field work will be done under the supervision of the Extension Division Staff, and regular reports will be required. From 2 to 4 quarter hours credit will be given depending on the nature, quality, and amount of work done. The student must register in advance for the work for which credit is given.

### JUNIOR COLLEGE COURSES.

1. Introductory Psychology. An elementary study of mental processes to enable students the better to direct their educational careers in college and to grasp in a general way the psychology of business, trade or profession.

Sec. 1, Fall quarter. Five credits.

Daily except Saturday 8:00.

Sec. 2, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 9:00.

Professor Peterson.

2. Physical Development. How to keep physically fit. The close correlation between mental fitness and physical fitness. Lecture course. Winter and Spring quarters. Two credits each quarter.

T. Th. 8:00.

Professor Peterson, Assistant Professor Jensen

3. Scoutmastership. A course in the organization, mangement and leadership of the boy scout troop. First aid, signalling, handicraft, camping, athletics and games, stories, trees, birds, rocks, stars, etc; the problems and aims of the boy scout novement. One lecture and one laboratory period. Hikes will be arranged. Spring quarter. Two credits.

Lec. M. 11:00; lab. to be arranged.

Committee in charge: Professor George R. Hill, Jr., Proessor Harris, Professor Richards, Professor Hogenson, Profesor Fletcher, Professor Henry Peterson, Professor William Petrson.

4a. HISTORY OF EDUCATION. The evolution of education and f educational institutions in the ancient pagan civilizations intuding Greece and Rome. A study of their ideals and processes. all quarter. Three credits.

M. W. F. 10:00.

Professor Peterson.

4b.HISTORY OF EDUCATION. The rise and growth of Chrisanity with its schools and systems of education in Europe down Modern times. Prerequisite, Education 4a. Winter quarter. hree credits.

M. W. F. 10:00.

Professor Peterson

4c. HISTORY OF EDUCATION. European education transplantl and gradually adapted to American conditions and to deocracy. The growth and development of American education to the present. Education 4a and 4b suggested as a preparation for is course. Spring quarter. Three credits.

M. W. F. 10:00.

Professor Peterson.

SENIOR COLLEGE COURSES.

5a. Principles of Psychology. A course designed for those reparing to teach, to become county agents in agriculture or ome economics or social leaders in other activities. The course rals in a general way with the processes of mental activity and rowth and is a prerequisite for later courses. Fall quarter. Three edits.

M. W. F. 11:00.

5b. Psychology of Adolescence. A course for those preparing to become high school teachers, directors of summer activities or leaders otherwise of adolescents. Prerequisite, Education 5a. Winter quarter. Three credits.

M. W. F. 11:00.

Professor Peterson.

5c. Educational Psychology. For prospective teachers and leaders. This course applies to the principles studied in preceding courses and to the teaching process and other aspects of social leadership. Prerequisite, Education 5a. Spring quarter. Three credits.

M. W. F. 11:00.

Professor Peterson.

7. Principles of Education. A study of the educative process and of the means and aims of education and their application to high school teaching and community leadership. Prerequisite, Psychology. Fall quarter. Three credits.

T. Th. S. 10:00.

Professor Peterson.

9a. Rural Education. Smith-Hughes methods of teaching agriculture and home economics in high school will be considered. The project method and its application to the studies above named and to other high school studies. Winter quarter. Three credits.

T. Th. S. 10:00.

Professor Peterson.

9b. Rural Education. Designed to prepare county agricultural agents, county home demonstration agents, agricultural specialists, home economics specialists, club leaders and state leaders. Also open to all students preparing to teach in agriculture and home economics in high schools. Courses 9a and 9b should be taken by all who expect to teach in these lines. Spring quarter. Three credits.

T. Th. S. 10:00.

Professor Peterson.

20. Methods of Teaching Home Economics. Fall and Winter quarters. Three credits each quarter.

M. W. F. 9:00.

Assistant Professor Kewley.

22. APPRENTICE TEACHING IN HOME Economics. Fall, Winter or Spring quarter. Five to ten credits.

Hours to be arranged. Assistant Professor Kewley.

24. METHODS OF TEACHING AGRICULTURE. Fall and Wineer quarters. Three credits each quarter.

Hours to be arranged. Assistant Professor Oberhansley.

26. Apprentice Teaching in Agriculture. Fall, Winter or Spring quarter. Five to ten credits.

Hours to be arranged. Assistant Professor Oberhansley.

### GRADUATE COURSE

30. METHODS OF EXTENSION WORK. Intensive study of the problems and functions of county agricultural agents, county nome demonstration agents, agricultural specialists, home economics specialists, club leaders and state extension leaders. The ollowing topics will be covered: A brief history of extension work; present organization and status of extension work; choosing the local program of work; developing projects; training ocal leaders; follow-up methods; methods in conducting meetings, demonstrations, exhibits, field trips, and contests; office organization, equipment, etc.; report writing, letter writing, and preparation of illustrative and other publicity material; the outpook for extension workers. Field trips will be made into those parts of the State where the most successful extension work is being done. Much practical experience. First term, Summer quarter. Credit to be arranged.

Hours to be arranged. Professors Peterson and Evans.

Note: Students who are preparing for positions as extension vorkers should include Education 5a, 5b, 5c, 7, 9b and 30. Education 30 is designed especially to fit teachers in agriculture and ome economics for the more lucrative positions in the extension service and to enable those already in extension work to each the higher positions in the field.

#### ENGLISH.

PROFESSOR PEDERSEN. Assistant Professor Kyle. Assistant Professor Vickers. MR ----

### VOCATIONAL COURSES.

b. ELEMENTARY ENGLISH. Fundamentals of good writ ing, reading and speaking. Grammar, spelling, punctuation, composition applied to easy classics. Students may enter at any quarter. Fall, Winter and Spring quarters. Five credits each Sec. 1. Daily, except Saturday 9:00.

Assistant Professor Vickers

Sec. 2. Daily, except Thursday, 10:00. (Winter quarter.)

c. Oral and Written Composition. Letters and busi ness forms. Novels, essays and plays will be read and dis cussed. Students may enter at any quarter. Fall, Winter and Spring quarters. Three credits a quarter.

Sec. 2. T. Th. S. 9:00.

Sec. 1. M. W. F. 11:00. Assistant Professor Kyle Mr.---

## JUNIOR COLLEGE COURSES

- 5. College Grammar. Three credits each quarter. Course repeats.
  - Sec. 1. Fall quarter T. Th. S. 10:00.
  - Sec. 2. Winter quarter T. Th. S. 8:00.
  - Sec. 3. Spring quarter T. Th. S. 8:00.

Sections limited to thirty students.

Assistant Professor Vickers

6. HISTORY OF ENGLISH LITERATURE. The literature o Great Britain from the Anglo Saxon period to the present day with emphasis on the ages since Shakespere. Fall, Winter and Spring quarters. Three credits each quarter.

Sec. 1. M. W. F. 8:00.

Sec. 2, M. W. F. 11:00.

Assistant Professor Vickers

Assistant Professor Vickers

### 7. Freshman Composition.

Business English. Sec. 1.—Runs throughout the year and includes not only practice in the wording of business forms, but also considerable drill in rhetorical details. Three credits each quarter.

M. W. F. 9:00.

1r.---

Business English. Sec. 2. Similar to section one, but with less drill in rhetorical practice. Runs through the Winter and Spring quarters only. Three credits each quarter.

T. Th. S. 8:00.

Mr.——

LITERARY FORMS. Description, narration, stories. Fall, Winter and Spring quarters. Two credits each quarter.

Sec. 3. M. W. 10:00.

Professor Pedersen

Sec. 6. T. S. 11:00.

Assistant Professor Vickers.

Exposition. Sec. 4. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 1:00.

Assistant Professor Kyle.

Exposition. Sec. 5. Winter and Spring quarters. Three credits each quarter.

T. Th. S. 10:00.

- Assistant Professor Kyle.

#### SENIOR COLLEGE COURSES

8. ADVANCED WRITING. Course is based on current models as found in Cunliffe and Lomer's "Writing of Today," which is used as a text. The training afforded should lead the student toward the mazagine market. Prerequisite, freshman compotion. Fall, Winter and Spring quarters. Two credits each quarter.

T. S. 11:00.

Professor Pedersen.

9. RECENT NOVEL. Writers of the twentieth century: Wells, Conrad, Galsworthy, Bennett, Howells, Herrick and others. Recent thought tendencies are emphasized.

T. Th. 1:00.

Professor Pedersen

10. SHAKESPERE. Detailed study in class of six plays, Mcbeth, Henry the Fourth, King Lear, Hamlet, Othello, Twelfth Night. Collateral reading: various other Shakesperean plays as well as a biography. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 9:00.

Professor Pedersen

- 11. Modern Drama (not given 1921-22).
- 12. AMERICAN LITERATURE. From colonial times to the present. Spring quarter. Three credits.

M. W. F. 8:00.

Professor Pedersen

13. THE BIBLE AS ENGLISH LITERATURE. This course will familiarize the student with the contents of the Bible. Some of the sub-topics are: history, prophecy, wisdom literature, poetry, the Bible as a whole. The emphasis is on reading, understanding and enjoying the great Book of Books. Open to students of the Junior College. Fall and Winter quarters. Three credits each quarter.

M. W. F. 10:00.

Assistant Professor Vickers.

14. THE ESSAY. The English essay of the nineteenth century from Lamb to Stevenson. Recent English and American essays, by Arnold Bennett, H. G. Wells, G. K. Chesterton, Agnes Repplier, Samuel Crothers. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 9:00.

Assistant Professor Kyle.

15. Advanced Business English. The writing of sales letters, preparation of booklets, circulars and direct mail adver-

tising of all kinds. Prerequisites, English 7 (Business English), Marketing 1, 2 and 3. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 900.

Professor Robinson.

- 16. World Masterpieces. (Not given 1921-22).
- 19. English Poets of the Nineteenth Century. (Not given 1921-22).
- 20. Debating. Fall and Winter quarters. Two credits each quarter.

M. F. 8:00.

Professor Pedersen.

21. Aesthetics. (Art 7) Study of the correlation of the fine arts and the principles governing sound judgment in each. Spring quarter. Five credits.

Daily, except T. 10:00.

Professor Fletcher.

25. JOURNALISM. News collecting, study of country and city papers, preparation of agricultural feature stories for magazines and newspapers. Students of ability taking this course may sell much of their class work to the college department of information service, thus getting much training in publicity work and agricultural editorship. Fall, Winter and Spring quarters. I'wo credits each quarter.

T. Th. 1:00.

Professor Arnold.

27. The Short Story. A study of the technic of the hort story. Stories by de Mauppasant, Poe, Hawthorne, Bret Iarte, Kipling, O. Henry and others will be analyzed. Attention vill be given to the best short stories appearing in current magaines. Fall quarter. Three credits.

T. Th. S. 10:00.

Assistant Professor Kyle.

30. LITERATURE FOR CHILDREN. Study of juvenile poetry

and prose. The nursery rhyme, fairy tale, fable, myth, favorite classics, etc. Spring quarter. Three credits.

M W. F. 11:00.

Professor Pedersen

## ENTOMOLOGY.

PROFESSOR HAWLEY.
ASSISTANT PROFESSOR PACK.
MR. KING.

See department of Zoology for related work.

### VOCATIONAL COURSE

a. Bee-Keeping. Methods and technic of bee-keeping. Manipulation of colonies, the apiary, hives, transferring, feeding, extracting, diseases and improvement are given attention Fall, Winter and Spring quarters. Three credits each quarter.

Hours to be arranged.

# JUNIOR COLLEGE COURSES

1. AGRICULTURAL ENTOMOLOGY. A general study of the insects of the intermountain region and of methods of control Winter quarter. Three credits.

T. Th. S. 8:00.

2. Systematic Entomology. Enough of the structure of insects is studied to enable the student to use the tables employed in classification. Each student must collect, mount and proper by identify a representative collection of insects found in the vicinity of Logan. Fall, Winter and Spring quarters. Three credits each quarter.

Hours to be arranged.

3. Economic Entomology. This course treats in detarinsects of the intermountain region and, in addition, those of

considerable importance in other states. The structure, classification, metamorphosis, habits and economic relations of insects are carefully studied. Reports required. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 10:00.

#### SENIOR COLLEGE COURSES.

- 4. Entomological Literature. Each student investigates and reports on the literature of some insect or insects of economic importance within his state. Historical development of entomology, current entomological literature and bibliographies are considered. Prerequisite, Entomology 2 or 3. Fall, Winter and Spring quarters. Three credits each quarter.
- 5. Research. Students may select or will be assigned certain problems dealing with different phases of entomology. The amount of credit will depend on the nature of the problems and the time spent. Thesis. Prerequisite, Entomology 2 or 3. Hours and credit to be arranged.

### FARM MANAGEMENT.

Professor Brossard.
Assistant Professor Thain.
Mr.

Note.—Students who major in Farm Management are required to take Farm Management 1, 2, 3, 4, and 5. Agricultural Economics 1, 3, 4, 5, 6, 7, 8, 9 and 10; Agronomy 1a and 5; Animal Husbandry 1 and 3a, and Horticulture 1 may be accepted toward a major in Farm Management.

## VOCATIONAL COURSE

a. FARM MANAGEMENT. A study of essential farm records and problems involved in choosing, buying, planning, or-

ganizing and managing a farm. Discussions of proper size, balance, diversity and quality of farm business; economical combinations of livestock, crops, pasture and ranges; and efficient use equipment and man and horse labor. Fall, Winter or Spring quarter. Five credits.

Daily, except Thursday 11:00.

Mr. ——

### JUNIOR COLLEGE COURSE

1. FARM BOOKKEEPING. (Accounting 1b) Principles of bookkeeping with special application to the farm. Two lectures and six hours of practice work each week. Winter quarter. Four credits.

Lec. T. Th. 1:00.

Assistant Professor Thain.

#### SENIOR COLLEGE COURSES

2. FARM MANAGEMENT. (Agricultural Economics 11). A study of the problems involved in choosing, buying, planning, organizing and managing a farm; in determining the proper size balance, diversity and quality of farm business; in combining economically livestock, crops, pasture and ranges; and in using efficiently equipment and man and horse labor. Prerequisites, Economics 1 or 2, Animal Husbandry 1 or 3a, and Agronomy 1a (or equivalent) and 6. Winter quarter. Three credits.

T. Th. S. 9:00.

Professor Brossard.

3. FARM COST ACCOUNTING. (Accounting 8). Enterprise Costs accounts and complete farm cost accounts. Special emphasis is given to the analysis and interpretation of results and their application in the organization and management of the farm. Prerequisite, Agricultural Economics 2. Spring quarter. Three credits.

T. Th. S. 9:00.

Professor Brossard

4. Types of Farming. A study of the natural and economic factors affecting types of farming in Utah, the United

States and other countries, with discussions of the problems of land settlement, land tenure, land utilization, contracts and leases. Spring quarter. Three credits.

M. W. F. 10:00.

Professor Brossard.

5. ELEMENTS OF AGRICULTURAL ECONOMICS. (Agricultural Economics 7). Economic principles underlying farm management, land tenure, general farming operations and rural life. Special attention is given to Western conditions. Prerequisite, Economics 1 or 2. Fall quarter. Three credits.

T. Th. S. 9:00

Professor Brossard.

6. Research. Special investigations of problems in Farm Management. Only those senior and graduate students who present an acceptable plan for an investigation will be admitted. Credit will be granted according to the work done.

Time to be arranged.

Professor Brossard.

## FARM AND AUTO MECHANICS.

Assistant Professor A. H. Powell

### VOCATIONAL COURSES

Courses a, c, b, i and w are offered with a view of fitting men to become efficient auto and farm mechanics. About twofifths of the time is devoted to lecture and recitation work and three-fifths to actual practical work.

a. Automobile and Tractor Course. Arranged for men who wish to specialize in auto mechanics and tractor work. Full time devoted to automobile design and construction, machine work, auto forging, shop mathematics and the study of gas motors. Fall, Winter, Spring and Summer quarters. Three credits each quarter.

Sections 1, 2 and 4—Auto Mechanics. Section 3—Tractor Mechanics.

Assistant Professor Powell

c. ADVANCED AUTO REPAIR. A continuation of the automobile work in course "a." Special emphasis will be given to standard methods of repair, shop equipment and shop management. Any quarter. Eight credits each quarter.

Daily, 8:00 to 11:00.

Assistant Professor Powell

b. Storage Battery Repair. A study of the various types of storage batteries. Considerable time will be given to battery troubles and repairs. Fall, Winter and Spring quarters. Eight credits each quarter.

Fall quarter, daily 8:00 to 11:00.

Winter and Spring quarters, daily 2:00 to 5:00.

Assistant Professor Powell

i-1. Auto Starting, Lighting and Ignition. Arranged for students who wish to become expert in this line of work. Considerable time devoted to trouble hunting and repair. Fall, Winter and Spring quarters. Eight credits each quarter.

Fall, quarter, daily 2:00 to 5:00.

Winter and Spring quarters, daily 8:00 to 11:00.

Assistant Porefssor Powell

i-2. Auto Starting, Lighting and Ignition. A continuation of Farm and Auto Mechanics "i-1." Special attention to motor and generator repairs and rewinding. Spring quarter. Eight credits.

Daily, 8:00 to 11:00.

Assistant Professor Powell

w. Oxy-Acetylene Welding. A study of the properties of various metals. Considerable practice is afforded in welding steel, cast iron, aluminum and other metals used in motor construction. Winter and Spring quarters. Eight credits each quarter.

Daily, 2:00 to 5:00.

Assistant Professor Powell

### JUNIOR COLLEGE COURSES

1. FARM MACHINERY. Tillage, cultivating, harvesting, pumping and general labor saving machinery. Fall quarter. Three credits.

Lec. W. F. 8:00; lab. M. 2:00 to 5:00. (Not given 1921-22.)

2. FARM MOTORS. The design, operation, care and adjustment of gasoline engines used on the farm, including the stationary engine, the tractor, the automobile and motor truck. Any quarter. Five credits.

Sections 1 and 2 reserved for Winter course students only.

Lec. M. W. F. 8:00-Winter or Spring quarter.

Lab. Sec. 1, T. Th. 2:00 to 5:00, Winter quarter.

Sec. 2, W. F. 2:00 to 5:00 Winter quarter.

Sec 3, T. Th. 2:00 to 5:00, Spring quarter.

Assistant Professor Powell

## SENIOR COLLEGE COURSES

3. APPLIED FARM MECHANICS. Arranged for teachers in agriculture and men preparing to qualify in Smith-Hughes work. A study of modern machinery, farm motors and farm appliances. Fall quarter. Five credits.

Lec. T. Th. S. 8:00; lab. T. Th. 2:00 to 5:00.

Assistant Professor Powell

5. Advanced Farm Motors. A thorough analysis of ignition devices for all gas engines, the care of the storage battery, magnetos, locating engine troubles; a study of farm electric lighting. Spring quarter. Five credits.

Lec. T. Th. S. 8:00; lab. M. W. 2:00 to 5:00.

Assistant Professor Powell.

## FOODS AND DIETETICS.

Professor Whitacre.
Miss Winnifred Smith.

Students who elect Foods and Dietetics as their major are required to complete Foods 2 and 4.

### VOCATIONAL COURSE

a. FOOD FOR THE FAMILY. Nutritional, economical and sanitary influences affecting the choice of food; study of food to meet dietary needs of the normal family. Practice in food preparation. Lecture-laboratory combination of work. This course will begin in the Fall provided a sufficient number of students register, otherwise it will begin with the Winter quarter. Three credits each quarter.

M. W. F. 9:00 to 12:00.

Miss Smith.

# JUNIOR COLLEGE COURSES

1. Meal Construction. A brief study of the principles underlying the selection, preparation and serving of food. This course is designed primarily for those students who are not registered in the School of Home Economics. Home Economic students who are not majoring in Foods and Dietetics should register for Foods 2 and 3 rather than Foods 1. Prerequisite, Physiology 1 or Physics 3; parallel Chemistry 1. Winter and Spring quarters. Three credits each quarter.

Lec. Th. 11:00; lab. T. Th. 2:00 to 5:00.

Professor Whitacre and Miss Smith

2. FOOD ECONOMICS. General methods of food production and distribution. Study of principles underlying choice of food and practice in technic of preparation of human food. Prerequisites, Chemistry 1 and Physics 1: Prerequisites or parallel,

Physiology 1 and Botany or Zoology 1. Fall, Winter and Spring quarters. Four credits each quarter.

Lec. T. Th. 1:00; lab. M. W. or T. Th. 2:00 to 5:00.

Professor Whitacre and Miss Smith.

#### SENIOR COLLEGE COURSES

3. Food Engineering. The economic, sanitary and aesthetic principles involved in the purchase, preparation, preservation and serving of food. The essentials in the planning of kitchen and dining room; the arrangement of furniture and equipment and the management of the work connected with home food problems as factors conducive to the greatest efficiency. Prerequisites, Art 1 or 21; Bacteriology 1, Foods 2. Advised prerequisites or parallel, Economics 1, Textiles 2a and 2b. Fall quarter. Four credits.

Lec. T. Th. 9:00; lab. W. F. 2:00 to 5:00.

# Professor Whitacre and Miss Smith

4. DIETETICS. The principles of human nutrition. Human dietary needs; nutritive value of foods. Practice in construction of dietaries to meet given needs. Prerequisites, Chemistry 3 and 7 and Foods 2. Winter and Spring quarters. Five credits each quarter.

Lec. M. W. F. 8:00; lab. W. F. 2:00 to 5:00.

# Professor Whitacre

6. Special Diets. Choice and preparation of food under conditions that present definite problems; as for infants and children, school lunches and the sick. Laboratory practice in preparation of foods suitable to demands in given instances. Collateral reading. Prerequisite, Foods 4. Fall quarter. Three credits.

Lec. M. W. 11:00; lab. M. 2:00 to 5:00.

## Professor Whitacre

10. Special Problems. Seminar. Project to be planned with instructor and carried out under her supervision. Pre-

requisite, Foods 4. Fall, Winter and Spring quarters. Time and credit to be arranged with instructor in charge.

Professor Whitacre

## GEOLOGY.

Professor William Peterson. Mr. Carder.

#### VOCATIONAL COURSE

a. Physiography. Special emphasis on the intermountain region. Given if ten or more students apply. Winter quarter. Three credits.

M. W. F. 8:00.

Mr. Carder

# SENIOR COLLEGE COURSES

2. General Geology. Dynamic structional and historical geology. The changes the earth's surface is now undergoing and the forces which produce them as a means of interpreting the past. Laboratory study of the common rocks and rock-forming minerals, with special stress on the soil product resulting from rock disintegration. A careful study of the geological development of the North American continent. Field trips with written reports. Prerequisites, Chemistry 1, Zoology 2, Sec. 1, Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 9:00.

Professor Peterson

Sec. 3. Geology 2 will be repeated during the Winter and Spring quarters if ten or more students apply for it. Five credits each quarter.

Daily, except Thursday 10:00.

Mr. Carder

3. Economic Geology. The first part of the course will deal with the non-metals with special emphasis on mineral fertilizers; the second part, with metals, their origin and economic

uses. Any quarter may be taken without the others. Prerequisite, Geology 2. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 9:00.

Mr. Carder

- 4. MINERALOGY. Individual laboratory work in blow-pipe analysis and determinative mineralogy. Prerequisite, Chemistry 1. One recitation and two laboratory periods. Students may start any time. Credit in proportion to work. Given if ten or more students apply. Mr. Carder
- 5. Geology of Ground Water. A study of structure to determine the cause of springs, artesian wells, etc. Structural characteristics that will yield water, either through tunneling or boring. Prerequisites, Geology 1 or 2 and Physics 1. Spring quarter. Five credits.

Daily, except Thursday 11:00. Professor Peterson

6. ADVANCED PHYSIOGRAPHY. For students who wish a more complete knowledge of physiographic features and processes than can be given in Geology "a." Prerequisite, Geology 2. Fall quarter. Three credits.

T. Th. S. 10:00.

Mr. Carder.

- 7. Petrology. The origin and formation of the different kinds of igneous rocks and methods for the determination of the minerals which compose them. Prerequisites, Geology 2 and 4 and Chemistry 1. Lectures, reading and laboratory work. Any quarter. Credit to be arranged. Mr. Carder
- 8. Field methods necessary in mapping the detailed geology of an assigned area. Time and credit to be arranged.

Professor Peterson.

9. Local Geology. The relief of Utah and bordering states. Relation of the country rock and physical features to productive land areas. One piece of relief modeling may be required from each student. Prerequisite, Geology 2. Full quarter. Three hours. Two or three credits. Laboratory to be arranged.

Professor Peterson and Mr. Carder

10. Geology. Relief modeling, methods by which any topographic map may be converted into a true relief model, including either the geology or detailed geography as the student may select. Either Fall or Winter quarter. Two or three credits.

Hours to be arranged.

Professor Peterson

11. AGRICULTURAL GEOLOGY. Local geology in the valleys of Utah. A detailed study will be made of the rock formations surrounding each valley and the character of soils from the disintegration of these rocks. The course will be prefaced by a study of structural and relief features of Utah as well as a general survey of the drainage systems as they have influenced the disposition of distintegrated rock in the forming of soil. Fall quarter. Three credits.

T. Th. S. 11:00.

Professor Peterson.

12. Engineering Geology. Dynamical and structural geology as it applies to construction work. Special attention is given to materials affecting road construction, dams and excavations. Winter Quarter. Five credits.

Daily, except Thursday 11:00.

Professor Peterson

## HISTORY.

PROFESSOR DAINES. PROFESSOR ROBINSON.

# JUNIOR COLLEGE COURSES.

3a. English History. Political and social history of England to 1485. Fall quarter. Three credits.

M. W. F. 9:00.

Professor Robinson

3b. English History. Political and social history of England 1485 to 1815. Winter quarter. Three credits.

M. W. F. 9:00.

Professor Robinson

3c. ENGLISH HISTORY. Political and social history of the British Empire, 1815 to the present. Particular attention will be paid to Anglo-American relations and to England's part in the war of 1914. Spring quarter. Three credits.

M. W. F. 9:00.

Professor Robinson

4a. Modern European History. Political and social history of Modern Europe to 1815. Fall quarter. Three credits.

T. Th. S. 9:00.

(Not given 1921-22.)

Professor Daines

4b. Modern European History. Political and social history of Modern Europe 1815-1914. Fall quarter. Three credits. T. Th. S. 9:00. Professor Daines

4c. Recent History. A study of the fundamental and the immediate causes of the World War. Winter quarter. Three credits.

T. Th. S. 9:00.

Professor Daines

4d. RECENT HISTORY. The diplomacy and the important events of the World War, the negotiations for peace, the League of Nations and the international problems arising since the war are investigated. Spring quarter. Three credits.

T. Th. S. 9:00.

Professor Daines

5. Western United States History. The Rocky Mountain and Pacific Coast History since the Spanish period. Special attention is paid to Utah history. Fall quarter. Three redits.

T. Th. S. 8:00.

Professor Daines

6a. Ancient History. History of the development of Grecian civilization with a short survey of the earlier civilizations that influenced it. Fall quarter. Three credits.

(Not given 1921-22.)

Professor Daines

6b. Ancient History. History of Rome. Spring quarter. Three credits.

(Not given 1921-22.)

Professor Daines

-10. HISTORY OF ART. (Art 6.) Winter quarter. Three credits.

M. W. F. 11:00.

Professor Powell

11a. HISTORY OF DOMESTIC ARCHITECTURE. (Household Administration 11a.) Fall quarter. Three credits.

M. W. F. 9:00.

(Not given 1921-22.)

Professor Fletcher

11b. HISTORY OF FURNITURE. (Household Administration 11b.) History of interior decoration and furniture styles. Winter quarter Three credits.

T. Th. S. 11:00.

Professor Fletcher

# SENIOR COLLEGE COURSES.

8. HISTORY OF AGRICULTURE. (Agronomy 14.) History of Agriculture with special emphasis on special and scientific phases; the successive steps by which modern agriculture has attained its present status. Winter quarter. Two, three or four credits.

M. W. F. 11:00.

# Professor Stewart and Mr.

12. Constitutional History of the United States. A history of the origins and development of our fundamental laws and institutions. Fall and Winter quarters. Three credits each quarter.

(Not given 1921-22.)

13a. UNITED STATES HISTORY. Political and social history of America to 1800. Fall quarter. Three credits.

M. W. F. 8:00.

Professor Daines

13b. United States History. A continuation of 13a, to 1865. Winter quarter. Three credits.

M. W. F. 8:00.

Professor Daines

13c. United States History. A continuation of 13b to the present time. Spring quarter. Three credits.

M. W. F. 8:00.

Professor Daines

15. World Politics. (Political Science 10) A study of the methods and practices governing interantional relations. Alternates with Political Science 8. Fall and Winter quarters. Three credits each quarter.

M. W. F. 9:00.

Professor Daines

# HORTICULTURE

PROFESSOR M. C. M.ERRILL \*ASSISTANT PROFESSOR ABELL MR. EMIL HANSEN MB. HARMON.

The following courses are required of all students majoring in Horticulture: 2, 4, 5, 8, 11, 12, 14 and 16.

## VOCATIONAL COURSES.

a. Fruit Growing in the West. A study of the principles and practices governing fruit production in arid regions. Fall quarter. Three credits.

Lec. W. F. 8:00; lab. M. 2:00 to 5:00.

Professor Merrill and Mr. Harmon

b. Practical Horticulture. Horticultural operations. Budding, grafting, pruning, spraying, plant propagation, greenhouse and nursery practice. Winter quarter. Three credits.

Lec. W. F. 8:00; lab. M. 2:00 to 5:00.

Professor Merrill and Mr. Harmon

<sup>\*</sup>On leave of absence.

c. The Principles of Gardening. Planning, planting and care of gardens. Study of varieties and garden operations. Production emphasized. Spring quarter. Three credits.

Lec. W. F. 8:00; lab. M. 2:00 to 5:00.

Professor Merrill and Mr. Harmon

# JUNIOR COLLEGE COURSES.

1a, 1b, 1c. Principles of Horticulture. Course in general horticulture designed especially for agricultural students not specializing in horticulture but who desire to become acquainted with the general field of horticultural information and practice. Fall, Winter and Spring quarters. Each quarter's work is complete and may be taken separately. Prerequisite, Botany

2. Three credits each quarter.

Fall quarter (1a) Orchard and Small Fruits.

Lec. T. Th. 9:00; lab. W. 2:00 to 5:00.

Professor Merrill and Mr. Harmon

Winter quarter (1b) Horticultural Technic and Plant Propagation.

Lec. T. Th. 9:00; lab. W. 2:00 to 5:00.

.. Professor Merrill and Mr. Hansen

Spring quarter (1c) Vegetable and Landscape Gardening. This course is also planned to meet the needs of Home Economics students.

Lec. T. Th. 9:00; lab. W. 2:00 to 5:00.

Professor Merrill and Mr. Harmon

2. Pomology. Principles underlying home and commercial fruit growing. Fall quarter. Three credits.

M. W. F. 9:00.

Professor Merrill

3. PLANT PROPAGATION. Methods in horticultural technic. Studies in budding, grafting, reproduction by seeds and vegeta-

tive parts and nursery practice. Prerequisite, Botany 1 or 2. Winter quarter. Three credits.

(Not given 1921-22.)

4. Practical Pomology. Practical problems pertaining to orchard practice—pruning, frost injury and prevention, planting, spraying, thinning, fertilizing and growth of cover crops. Prerequisite, Horticulture 2. Spring quarter. Three credits.

(Given in alternate years. Not given 1921-22.)

5. OLERICULTURE. Principles and practices underlying production of vegetable crops and methods of handling for home and commercial purposes. Study of varieties and their adaptations. Fall quarter. Three credits.

Lec. W. F. 11:00; lab. T. 2:00 to 5:00.

Professor Merrill and Mr. Harmon

6. PLANTS UNDER CLASS. Vegetable forcing. Crops grown in cold frames, hot-beds and greenhouses. Soil composting and managing. Prerequisite, Horticulture 5. Winter quarter. Three credits.

(Not given 1921-22.)

7. SMALL FRUITS. Propagating, cultivating, pruning, harvesting and marketing of berries, currants and grapes. History and characteristics of varieties. Spring quarter. Three credits. Lec. W. F. 10:00; lab. F. 2:00 to 5:00.

Professor Merrill and Mr. Harmon

8. Landscape Gardening. Principles underlying home nd city beautification. Preparation of ground, selection and crouping of ornamental plants, care of lawns, designing of plans. Prerequisite, Botany 2. Fall quarter. Three credits.

(Not given 1921-22.)

#### SENIOR COLLEGE COURSES.

1. General Horticulture. Study of the various phases

of horticulture from the view point of correlation with general and specialized farming. Intended primarily for Senior College Agricultural students not specializing in horticulture. Spring quarter. Five credits.

Lec. M. W. F. 9:00; lab. T. Th. 2:00 to 5:00.

Professor Merrill and Mr. Harmon

9. Landscape Design. Advanced practice in landscape art. Prerequisite, Horticulture 8. Winter quarter. Three credits.

(Not given 1921-22.)

10. Home Floriculture. Propagation and care of plants useful for home decoration. Exterior plantings, flower beds and borders. Designed for students in Home Economics as well as for horticultural students. Spring quarter. Three credits.

Lec. T. Th. 11:00; lab. F. 2:00 to 5:00.

Professor Merrill and Mr. Hansen

11. Systematic Pomology. Variety characteristics and adaptations. Fruit scoring and preparation for judging fruit exhibits. Prerequisites, Horticulture 2 and 4. Fall quarter. Three credits.

Hours to be arranged.

Professor Merrill

12. PLANT BREEDING. Fundamentals of Mendelism, genetics and biometry. Study of hereditary characters, environmental variations and practical plant breeding. Prerequisites, Horticulture 3 and Botany 2. Spring quarter. Five credits.

(Not given 1921-22.)

13. Horticultural By-Products. Utilization of waste materials. Bio-chemistry of processes in plant products. Ripening, storage, decay, fermentation, canning operations. Prerequisites, Horticulture, 2, 5 and 7, Botany 4, Chemistry 3 and Bacteriology 1. Fall quarter. Four credits.

(Not given 1921-22.)

14. HISTORY OF CULTIVATED PLANTS. Historical consideration of wild plants in nature from earliest times and their gradual adaptation to the uses of man. Winter quarter. Two credits.

W. F. 10:00.

Professor Merrill

15. EXPERIMENTAL HORTICULTURE. Preparation for research in horticulture. History and tendencies of horticultural research throughout the world. Critical study of bulletins, theses and research publications. Extensive reading and reports. Reading knowledge of French and German desirable. Prerequisites, Horticulture 2, 3, 4, 5, 6, 7, 11 and 12, Botany 2 and 4, Chemistry 3 and Entomology, 1. Five credits. Spring quarter.

Hours to be arranged.

Professor Merrill

16. Seminar. Review of current literature. For advanced students. One hour a week. One credit each quarter.

Time to be arranged.

Professor Merrill

17. Research. For students with adequate preparation. Time and credit to be arranged. Professor Merrill

## HOUSEHOLD ADMINISTRATION

ASSISTANT PROFESSOR AMY L. MERRILL

PROFESSOR FLETCHER.

Professor Pedersen.

Professor P. E. Peterson.

PROFESSOR WHITACRE.

Professor Moen.

Professor Preston, M. D.

Assistant Professor Dancey.

Assistant Professor Kewley.

Students doing their major work in Household Administration must include at least 21 hours of Senior College work in this department.

# JUNIOR COLLEGE COURSES

1. Personal Accounts. Keeping accurate records of each student's expenditures during college life; a critical and comparative study of students' spending habits as shown by the actual accounts kept; consideration of the principles underlying wise buying. Open to all college women. Fall, Winter and Spring quarters. One credit each quarter.

Friday 12:00.

Professors Whitacre and Moen

(Any college student who has received 3 hours credit for the above course may earn 1 hour of credit by keeping records of one year's expenditures during college life, using for the record the form employed for class use and doing the work under supervision of the instructor in charge of Personal Accounts.)

3. Home Health and Nursing. Special emphasis on the prevention of disease and on the building up of the highest degree of health as the principal function of the home nurse. The treatment of functional disturbances, injuries, wounds, etc., receive due attention. Lectures, discussions and laboratory demonstrations. The reading of reference works, and special reports are required. Winter and Spring quarters. Three credits each quarter.

Lec. T. Th. 9:00; lab. any afternoon 2:00 to 5:00.

Assistant Professor Dances

11a. HISTORY OF DOMESTIC ARCHITECTURE. (History 11a.) History of the house from primitive times to the present. Fall quarter. Three credits.

Not given 1921-22.

Professor Fletcher

11b. HISTORY OF FURNITURE. (History 11b). History of interior decoration and furniture styles. Spring quarter. Three credits.

T. Th. S. 11:00.

Professor Fletcher

#### SENIOR COLLEGE COURSES.

- 20. Household Management. A study of the organization and management of the household with a view to securing the maximum of family welfare. Consideration of values and division of family income.

  Assistant Professor Kewley
- 22a. Home Furnishing. (Art. 22a.) Home furnishing and decoration. Consideration of the principles governing good taste in house exteriors and garden designs, wall decoration, floors, ceilings, color and furniture selection and arrangements. Prerequisites, Art 1, 21, 2, or their equivalents. Fall quarter. Four credits.

Lec. T. Th. S. 9:00; lab. Th. or F. 2:00 to 5:00.

Professor Fletcher

22b. Home Furnishing. (Art 22b). Textiles and drapery, tableware, pottery and bric-a-brac, pictures, sculptures, flowers will be treated upon together with the assembling of all features which go to make the home beautiful. Prerequisite, Household Administration 22a. Winter quarter. Four credits.

Lec. T. Th. S. 9:00; lab. Th. or F. 2:00 to 5:00.

Professor Fletcher.

23. Housewifery. Six weeks are spent in residence in the Practice Home, where an opportunity is given to apply to home conditions the principles of home economics as studied in the College. The remaining six weeks of the quarter the study of the business of the home will be taken up, including practice in laundry work. A fee of \$6.00 per week will be charged while in residence at the Practice Home. Three lectures and one laboratory during time not in residence. Any quarter. Five credits.

Lec. M. W. F. 9:00; lab. to be arranged.

Assistant Professor Merrill.

25. Mothercraft and Child Welfare. Growth and development of the foetus, correct and incorrect impressions concerning the prenatal influence, physiological changes during pregnancy, care of the expectant mother, care of the infant, causes and prevention of infant mortality and vital questions of the adolescent period will be considered. Spring quarter. Three credits.

M. W. F. 10:00.

Professor Preston.

27. HOUSEHOLD ACCOUNTS. (Accounting 7.) The practical application of accounting principles to home problems. Two lectures and six hours laboratory work per week. Spring quarter. Four credits.

Lec. T. Th. 1:00.

Professor Peterson

30. LITERATURE FOR CHILDREN. Study of the child and institutional factors affecting him; the child and the book; the adolescent and the book; types of literature for children; contributions to children's literature of Greece, Rome and other countries. Spring quarter. Three credits.

M. W. F. 11:00.

Professor Pedersen

## IRRIGATION AND DRAINAGE

Professor Israelsen.
Professor Ray B. West
Associate Professor Winsor.
Mr. Fife.

Students who major in Irrigation and Drainage will be required to complete courses 1, 2, 4 and 6 or their equivalents and to present a thesis concerning some special problem to be assigned by the Department, as announced in Course 8.

#### VOCATIONAL COURSES.

a. Farmers' Course in Irrigation and Drainage. Practical information on measurement of irrigation water, construction of small headgates and ditches, methods of handling irrigation water on different types of soil and common problems in farm drainage. Winter quarter. Three credits.

M. W. F. 8:00.

Associate Professor Winsor

b. Water Masters' Short Course. Practical information concerning water measurement, capacities of soils, water requirement of crops, preparation of land for irrigation, boring wells, installation of pumps for irrigation purposes, water right doctrines and other equally important irrigation problems. One week beginning January 16.

Professor Israelsen, Associate Professor Winsor, Mr. Fife and others.

## JUNIOR COLLEGE COURSES.

1. IRRIGATION AND DRAINAGE PRACTICE. Water measurement, effect of soil and plant on time and frequency of irrigation, duty of water, design of farm ditches and preparation of land for irrigation, pumping for irrigation and methods of farm drainage. This course may be used as a major or a minor in the Department of Agronomy. Fall quarter for students in Agricultural Engineering. Spring quarter for students in Agriculture.

Sec. 1. Fall quarter; Sec. 2. Spring quarter. Five credits. Lec. M. W. F. 11:00; lab. M. W. or W. F. 2:00 to 5:00.

Mr. Fife

2. Hydraulics. Laws of liquids in motion and at rest, flow in natural and artificial channels and elementary principles of water power development Prerequisite, Mathematics 2 or its equivalent. Fall and Winter quarters. Three credits each quarter.

Lec. T. Th. 8:00, lab. M. 2:00 to 5:00.

#### SENIOR COLLEGE COURSES.

3. Design of Drainage Systems. Preliminary survey, location of drains, flow in drains and in open channels and construction of drainage systems with special reference to the drainage of irrigated lands. Prerequisite, Hydraulics, Spring quarter Five credits.

Lec. T. Th. S. 9:00; lab. T. Th. 2:00 to 5:00.

Associate Professor Winso

4. Design of Irrigation Systems. Sources of water supply, diversion works, canal alignment and cross section flumes drops and spillways. Prerequisites, Hydraulics and Strength o Materials. Fall and Spring quarters. Five credits each quarter

Lec. M. W. F. 8:00; lab. T. Th. 2:00 to 5:00.

Professor Israelser

5. Management and Operation of Irrigation Systems Delivery of water to irrigators, annual water charges, operation costs. Winter quarter. Three credits.

M. W. F. 11:00.

Associate Professor Winso.

6. IRRIGATION INSTITUTIONS. (Given by the Department of Irrigation and Drainage and Political Science, jointly.) Wateright doctrines, laws governing the adjudication and acquirement of water rights and the distribution of water; organization of irrigation enterprises. Prerequisite or parallel, a general course in Economics or Sociology. Winter and Spring quarters. Three credits each quarter.

T. Th. S. 8:00.

Winter quarter, Professor Israelse Spring quarter, Judge Bulle

7. Seminar. Papers and discussions upon problems concerning some phase of irrigation or drainage development. Required of students who major in Irrigation and Drainage. Winterquarter. One credit.

F. 12:00.

Professor Israelsen, Professor West, Associate Professor
Winsor and Mr. Fif

8. Research. Any senior or graduate student wno majors in Irrigation and Drainage is required to elect a problem for investigation and to prepare a thesis. Hours and credits to be arranged with instructor.

Professor Israelsen, Professor West and Associate
Professor Winsor

(Note)—Agronomy 6 (Soils) and Geology 5 (Ground Water) may be applied toward a major or a minor in the Department of Irrigation and Drainage, School of Agricultural Engineering.

## LIBRARY ECONOMY

MISS HATTIE SMITH.

1. General Reference. Classification and arrangement of books; the card catalog; reference books. Text: "List of Reference Books in the Utah Agricultural College Library." Winter and Spring quarters. One credit each quarter.

T. 1:00.

Miss Smith

### MARKETING

Professor Robinson.
Professor Wanlass.
Professor M. H. Harris
Mr. Clawson.

# VOCATIONAL COURSE

a. Marketing of Farm Products. An elementary course dealing with the methods and organization used in the marketing of farm crops. Winter and Spring quarters. Three credits each quarter.

M. W. F. 10:00.

Mr. Clawson

#### JUNIOR COLLEGE COURSES

1. Psychology of Advertising and Selling. A study of the chief human instincts, needs and emotions. How to use the laws of psychology may be applied to business. Prerequisite, Economics 1 or 2. Fall quarter. Three credits.

M. W. F. 11:00.

Professor Robinson

2. Advertising. A first course, designed to meet the needs of all students in business who want a general knowledge of advertising. The literature of advertising, the makeup of advertisements for newspapers and magazines; much practical experience in the writing of advertisements. Prerequisites, Marketing 1 and English 7, (Business English). Winter quarter. Three credits.

Lec. M. W. 11:00; lab. F. 2:00 to 4:00.

Professor Robinson

3. Salesmanship. A first course, designed to meet the needs of students who want a general knowledge of the principles underlying selling. Demonstration sales. Prerequisite, Marketing 1. Spring quarter. Three credits.

Lec. M. W. 11:00; lab. F. 2:00 to 4:00.

Professor Robinson

# SENIOR COLLEGE COURSES

4. AGRICULTURAL COMMERCE. This course will cover the basic facts necessary to a clear understanding of the problems in marketing. Supply and demand of farm products, prices and production, the economic relations of the farmer, the middleman and the consumer will receive special consideration. Prerequisite, Economics 1 or 2. Fall quarter. Three credits.

M. W. F. 9:00.

Professor Wanlass

5. Marketing of Farm Products. (Agricultural Economics 9.) Problems of marketing specific farm products, such as livestock, grains, potatoes, hay, dairy products, etc., will be

studied from the standpoint of the economic forces which give rise to such problems. Possibilities of improvement of the present systems will be considered. Prerequisite, Economics 1 or 2. Winter quarter, three credits.

M. W. F. 9:00.

Professor Wanlass

6. Cooperation in Agriculture. (Agricultural Economics 10.) Growth of the cooperative movements with the viewpoint of showing their strength and weakness; typical cooperative enterprises will be studied in detail. Principles of cooperation and the practicability of their application will receive first consideration. Prehequisites, Economics 1 and 2. Spring quarter. Three credits.

M. W. F. 9:00.

Professor Wanlass

7. Geography of Commerce. This course will deal with geography as related to commerce. The environmental factors—natural resources, climate, population, etc., will be studied from the commercial viewpoint. An analysis of the resources and influstries and their geographical distribution will be made. Typical industries will be followed from the production of their raw naterials to the marketing of their finished products. Spring quarter. Three credits.

T. Th. S. 11:00.

Professor Harris

8. ADVERTISING AND SELLING. An advanced course. The factors which underlie the advertising campaign; planning the idvertising campaign; the duties of the advertising manager; he advertising agency; periodical media, rates, circulation, etc., he duties of the sales manager, sales policies, routing salesmen, etc. Prerequisites, Marketing 1, 2 and 3. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 10:00.

Professor Robinson

9. Advanced Business English. The writing of sales etters, preparation of booklets, circulars and direct mail adver-

tising material of all kinds. Prerequisites, English 7 (Business English), Marketing 1, 2 and 3. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 9:00.

Professor Robinson

# **MATHEMATICS**

Professor Saxer Mr. McDonald. Mr. Carder.

#### VOCATIONAL COURSES.

- a. Vocational Algebra. A brief course in elementary algebra. Daily for twelve weeks during the Summer quarter.
- b. PLANE GEOMETRY. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F., 9:00.

Mr. McDonald

# JUNIOR COLLEGE COURSES.

2. ELEMENTARY ANALYSIS. Prerequisites, high school algebra and geometry. Fall, Winter and Spring quarters. Three

credits each quarter.

Fall quarter. Elementary graphical methods for presenting facts. Elementary theory of statistics. Relation of the graph to algebra, arithmetic and geometry. Review of elementary algebra.

Winter quarter. Graphical and algebraical solution of triangles. Trigonometry and the use of trigonometric tables. Use of logarithms, slide rule, etc.

Spring quarter. Freshman algebra with applied problems selected from the various departments of the College.

Sec. 1, M. W. F. 8:00.

Sec. 2, M. W. F. 11:00.

Professor Saxer

4. Solid Geometry. Spring quarter. Five credits. Daily, except Thursday, 10:00. Mr. McDonald

5. College Algebra. Prerequisite, one and one-half years of high school algebra. Fall quarter. Five credits.

Daily, except Thursday, 10:00.

Mr. McDonald

6. Trigonometry. Prerequisite, Mathematics 5. Winter quarter. Five credits.

Daily, except Thursday, 10:00. Mr. McDonald.

# SENIOR COLLEGE COURSES.

7a. ANALYTICAL GEOMETRY. Prerequisite, Mathematics, 2 or 6. Fall quarter. Three credits.

M. W. F. 9:00.

Professor Saxer

7b. DIFFERENTIAL CALCULUS. Prerequisite, Mathematics 7a. Winter quarter. Three credits.

M. W. F. 9:00.

Professor Saxer.

7c. INTEGRAL CALCULUS. Prerequisite, Mathematics 7b. Spring quarter. Three credits.

M. W. F. 9:00.

Professor Saxer

- 8. DIFFERENTIAL EQUATIONS. Prerequisite, Mathematics 7. Fall, Winter and Spring quarters. Two credits each quarter. T. Th. 11:00. Professor Saxer
- 10. General Astronomy. Prerequisites, Physics 1 and Mathematics 2 or 6. Spring quarter. Five credits.

Daily, except Saturday, 8:00.

Professor Saxer and Mr. Carder

12. MATHEMATICAL THEORY OF INVESTMENT. Prerequiite, Mathematics 2 or 5. Fall, Winter and Spring quarters. Two redits each quarter.

T. Th. 1:00.

Professor Saxer

#### MECHANIC ARTS

#### FORGING AND GENERAL BLACKSMITHING

Assistant Professor Egbert.

# VOCATIONAL COURSES

An average of one third of the time in all courses in forging is spent demonstrating and lecturing.

a, b, c. Forge Practice. Forging, welding, tempering, tool making and other operations essential to forge shop work. Fall, Winter and Spring quarters.

Sec. 1 and 2. Daily 8:00 to 11:00. Six credits each quar-

ter.

Sec. 3 and 4. Daily except Saturday 2:00 to 5:00. Five credits each quarter.

Assistant Professor Egbert

d. SHORT COURSE. Select work from Forge Practice "a," for agricultural, automobile and tractor students who cannot spend each day in the shops. Fall, Winter and Spring quarters. Sections 1, 2 and 3, three credits each quarter. Section 4, two credits each quarter.

Sec. 1, M. W. F. 8:00 to 11:00.

Sec. 2, T. Th. S. 8:00 to 11:00.

Sec. 3, M. W. F. 2:00 to 5:00.

Sec. 4, T. Th. 2:00 to 5:00.

Sections 1 and 3 reserved for course "d" men in Fall and Spring quarters. Beginners taken in for all four sections, Winter quarter.

Assistant Professor Egbers

e. Advanced Short Course. For students who have had some work, but cannot fit the regular schedule. Work selected from regular courses. Time and credit to be arranged with the instructor.

\*\*Assistant Professor Egbert\*\*

# JUNIOR COLLEGE COURSES

1a, 1b, 1c. Forge Shop Operations. Advanced forging

and general repair work, including plow work, spring work, axle and tire setting and horseshoeing. Prerequisite, Forge Practice. Five credits each quarter.

Sec. 1. Daily except Saturday, 8:00 to 11:00.

Sec. 2. Daily except Saturday, 2:00 to 5:00.

Assistant Professor Egbert

2a, 2b, 2c. Advanced Shop Practice. The student may imphasize any line of blacksmith work that suits his particular needs. Prerequisite, Forge Shop Operations. Credit also in Senior College. Fall, Winter and Spring quarters. Five credits ach quarter.

Sec. 1. Daily except Saturday, 8:00 to 11:00.

Sec. 2. Daily except Saturday, 2:00 to 5:00.

Assistant Professor Egbert

7, 8, 9. AUTOMOBILE REPAIRS. Repairing and building odies, wheels and springs. Prerequisite, Forge Shop Operations. 'all, Winter and Spring quarters. Five credits each quarter.

Sec. 1. Daily except Saturday 8:00 to 11:00. Sec. 2. Daily except Saturday, 2:00 to 5:00.

Assistant Professor Egbert

FOUNDRY. Operated for demonstration and the making of astings. If a sufficient number of students apply, the foundry vill be run for instructional purposes also.

#### MACHINE WORK

Associate Professor Newey. Mb. Stevens.

## VOCATIONAL COURSES.

a, b, c. MACHINE SHOP PRACTICE. Lathe, planer, shaper, rill-press operation, the use of hand tools, laying out and fitting tachine parts and other operations essential to machine shop ork. The shop work is supplemented each quarter by a course the Shop Technology and Shop Mathematics.

Sec. 1 and 2, seven credits each quarter for both sections. Sec. 3 and 4 six credits each quarter, for both sections.

## Schedule:

Sec. 1, T. Th. S. 8:00 to 11:00.

Sec. 2. M. W. F. 8:00 to 11:00.

Sec. 3. T. Th. 2:00 to 5:00.

Sec. 4. M. W. F. 2:00 to 5:00.

Associate Professor Newey and Mr. Steven

d. SHORT COURSE. Select work from Machine Shop Practice including Shop Technology and Shop Mathematics. Sections 1, 2, 4, four credits. Section 3, three credits.

Sec. 1 or 4—Fall and Spring quarters.

Sec. 1, 2, 3 or 4—Winter quarter.

Associate Professor Newey and Mr. Steven

e. Advanced Short Course. Select work from Machin Shop Practice including Shop Technology and Shop Mathematics. Prerequisite, Short Course. Four credits.

Sec. 2 or 4-Fall and Spring quarters.

Sec. 1, 2 or 4—Winter quarter.

Associate Professor Newey and Mr. Steven

# JUNIOR COLLEGE COURSE

1a, 1b, 1c. General Machine Work. Advanced lathe an planer work, milling, gear cutting, tool grinding, the building of simple machines and automobile parts. Throughout the course practical talks and lectures are given on modern shop methods. Prerequisite, Machine Shop Practice, a, b, c.

Sec. 1 and 2, six credits each quarter for both sections.

Sec. 3 and 4, five credits each quarter, for both sections.

Associate Professor Newey and Mr. Steven

# SENIOR COLLEGE COURSES.

2a, 2b, 2c. Tool Making. This course includes practic in making and grinding arbors, standard gauges, tops, reamer

milling cutters, etc., and in planning and building special tools. Prequisites, General Machine Work 1a, 1b, 1c.

Sec. 1 and 2, six credits each quarter for both sections.

Sec. 3 and 4, five credits each quarter, for both sections.

Associate Professor Newey and Mr. Stevens

MECHANISM. Time and credits to be arranged.

Note: For unfinished courses, credit will be given according to work done. Not less than two credits will be given.

#### MECHANICAL DRAWING

Professor J. S. Powell Professor Ray B. West.

Mr.----

Drawing rooms are open daily from 8:00 to 5:00. Supervised instruction given from 8:00 to 11:00. Three hours a week are required for each credit.

# JUNIOR COLLEGE COURSES.

- 1. Agricultural Drawing. One lecture and four hours laboratory work.
- 1a. FARM CONSTRUCTION. Working drawings of feed racks, gates, etc., in straight line projection. Lettering and reading of plans. Fall or Winter quarter. Two credits.

Lec. T. 10:00.

1b. FARM STRUCTURES. Drawing and designing of poultry houses, swine houses, granaries, garages and other farm buildings. Prerequisite, 1a. Winter or Spring quarter. Two credits.

Lec. T. 10:00.

1c. Maps and Topographical Dbawing. Drawing of grounds, gardens and farm maps. Prerequisite 1b. Spring quarter. Two credits.

- 2. Drawing for Builders and Mechanics. These courses are planned to correlate with the work of the student in the shops. One lecture and four hours laboratory work.
- 2a. Drawing of Shop Exercises. Freehand sketching and rendering in straight line projection. Reading of plans and lettering. Fall or Winter quarter. Two credits.

Lec. T. 1:00.

2b. Structural Details. Drawing of walls, windows, roof details and furniture, forging exercises and machine parts. Prerequisite 2a. Winter or Spring quarter. Two credits.

Lec. T. 1:00.

2c. Building Details. Drawing of simple plans, elevations and details. Problems in carriage and automobile bodies and machine parts. Spring quarter. Two credits.

Lec. T. 1:00.

Professor Powell and Mr.

- 3. Mechanical Drawing. One lecture and eight hours laboratory work.
- 3a. THE USE AND CARE OF INSTRUMENTS. Applied geometry and orthographic projection. Fall or Winter quarter. Three credits. Lec. T. 10:00.
- 3b. Developing Surfaces and Intersections. Prerequisite 3a. Winter or Spring quarter. Three credits.

Lec. T. 10:00.

3c. Pictural Representation. Isometric, oblique and cabinet projections; perspective and shades and shadows. Spring quarter. Three credits.

Lec. T. 10:00.

4. Architectural Drawing. The study of architectural problems and designs; the classic orders of architecture and

rendering in wash, water colors, crayons, pencil and pen and ink. Prequisite Drawing 3a, 3b, 3c.

- 4a. Architectural Construction. Designing a cottage, drawing the plans, elevations and sections. Details of walls, roof, cornice, windows, doors, stairs, fireplace and cabinets and making specifications and bill of materials. Fall, Winter and Spring quarters. Five credits each quarter.
- 4b. Orders of Architecture. Studies and drawing and rendering in wash and water colors of problems of the different classic orders. Five credits.
- 4c. Architectural Design. This course consists of the study and rendering of original designs by the students. These studies are partly from programs issued by the instructor and partly from the programs issued by the Beaux Arts Institute of Design of New York. The finished designs of the latter group are submitted to the juries in New York in competition with those of students of other schools of architecture. A problem is given the student. He is obliged to work a number of tours by himself, making a sketch; each student then takes a tracing of his sketch, leaving the original with the instructor. He then works up the sketch with criticism from the instructor and fellow students, finishing the design with as little change as possible excepting to perfect the proportions and details. Each problem will take about six weeks. The finished drawings are udged by a jury and prizes and mentions awarded.

Professor Powell

Design Class C. Order problems of the Beaux Arts Institute or similar problems arranged by the instructor. Three bours daily for six weeks. Three credits.

Professor Powell

DESIGN CLASS B. Class B plan problems and Class B sketch problems of the Beaux Arts Institute or similar problems arranged by the instructor. Three hours daily for six weeks. Three credits.

Three credits.

Professor Powell

DESIGN CLASS A. Class A Plans and Sketch problems of the Beaux Arts Institute or similar problems arranged by the instructor. Three hours daily for six weeks. Three credits.

Professor Powell

- 5. MACHINE DRAFTING. The drawing of machine shop problems and machines. Prerequisites 3a, 3b, 3c.
- 5a. Drawing of fastenings such as bolts, screws, keys, rivets and pipe. Any quarter. Three credits.
- 5b. Detail Drawings. Drawing of details and sections and making of assembly drawings from details and dimensioning studies. Any quarter. Three credits.
- 5c. Working Drawings. Special representation, drawing of cams and gears and assembly and detail drawings. Any quarter. Three credits.

  Professor Powel.
- 6. MAP AND TOPOGRAPHICAL DRAWING. Plotting of surveys. Drawing of topographical symbols, contours and profiles Lettering and tinting. Prerequisite, Mechanical Drawing 1, 2 or 3. Three hours in drawing for one credit. Student may elect one or more credits. Any quarter.

Professor Powel

- 7. Engineering Drawing. The drawing of engineering structures in orthographic projection. Prerequisite, Drawing 1 2 or 3. Any quarter. Three credits. Professor Wes.
  - 8. Descriptive Geometry. Of practical value to the me

chanic and engineer in reading working drawings and in solving graphical problems. The point, line, plane and simple solid are studied. Prerequisite, Drawing 1, 2 or 4.

Professor West

9. LETTERING AND DESIGNING OF COMMERCIAL AND OTHER FORMS. Freehand sketching and lettering, making of geographical charts and plotting of data. Designing accounting organizations and statistical forms. Three hours in drawing for one credit. Student may elect one or more credits. Any quarter.

Professor Powell and Mr.

Note: Credit will be allowed in Mechanical Drawing in proportion to the amount of work completed.

#### WOODWORK AND HOUSEBUILDING

Associate Professor Hansen. Mr. Swenson. Mr. Hughes.

The shops are open daily, except Saturday, from 8:00 to 12:00 and from 2:00 to 5:00 and Saturday from 8:00 to 12:00. The courses scheduled may be taken at any time when the shops are open.

(Lectures are included in the laboratory periods.)

## VOCATIONAL COURSES.

- a. Fundementals. Scarfing, mortising, dovetailing and jointing. Proper handling of tools is emphasized.
- b. Panels, sashes, doors and rafter cutting; also thorough practice in tool sharpening.
- c. Feedhoppers, trestles, gates, grindstone frames, beehives, etc., or simple furniture.

Vocational Courses five days a week, three hours daily. Five credits. From one to five credits given according to the amount of work done.

Associate Professor Hansen

### JUNIOR COLLEGE COURSES.

- 1, 2, 3. Machine Work. The use of wood-working machinery, building a modern work bench and tool chest; also elementary and advanced wood turning. Prequisite, Carpentry c. Three hours daily any five days a week. Fall, Winter and Spring quarters. Five credits each quarter.

  Mr. Swenson
- 4, 5, 6. Cabinet Making and Housebuilding. Furniture in fir and oak, staining, fuming and finishing; framing, roofing, door and window frames. Prerequisite, Carpentry 3. Three hours any five days a week. Fall, Winter and Spring quarters. Five credits each quarter.

  Mr. Swenson

## SENIOR COLLEGE COURSES.

7, 8, 9. Fancy Furniture. Mahogany and other expensive woods are used; veneering, inlaying and hand polishing. Prerequisite Carpentry 6. Three hours daily, any five days a week. Fall, Winter and Spring quarters. Five credits each quarter.

Mr. Swenson

10. Wood Carving. Simple articles in straight and curved lines, simple conventional ornaments and natural foliage. Time and credits to be arranged with the instructor.

Mr. Hughes

- 11. Pattern Making. Time and credits to be arranged with the instructor.

  Mr. Swenson
- 12. ADVANCED SHORT COURSE. For students who have had some work and want to continue without taking the regular courses. Time and credit to be arranged with the instructor.

Mr. Swenson

13. PICTURE FRAMING. Making of simple mouldings and frames, finishings, mat cutting, mounting and fitting. May be had in connection with the advanced courses in woodwork. Time and credit to be arranged with the instructor.

Mr. Swenson

14. Wood Finishing. Paints, pigments, oils and their manufacture. Water, oil and spirit stains; wash finish. Varnishes—kinds and their preparation; rubbing and hand polish, May be taken any quarter if four or more students apply. Three lectures a week, one quarter. Three credits.

Time to be arranged with the instructor.

Associate Professor Hansen

#### HARNESS REPAIRING

Mr. Swenson.

#### VOCATIONAL COURSE

a. Harness Repairing. Designed to fit the student to do ordinary repairing of harnesses, saddles, etc. on the farm. Splicing, riveting, sewing, cleaning, oiling and the general upkeep of harness and leather goods. One three hour laboratory period each week throughout Fall, Winter and Spring quarters. One credit.

Mr. Swenson

#### METHODS IN EXPERIMENTATION

This course will be given by members of the Experiment Station Staff, Hours and credits are to be arranged.

# METHODS IN EXPERIMENTATION.

- a. Methods and principles of research as applied to agriculture. Winter term.
- b. Experimental work in home problems in bacteriology, infant feeding, household chemistry or working out of home equipments, or in any problems brought in from the field.

Care will be taken not to duplicate other courses and an effort will be made to utilize in actual practice material obtained in class-room and laboratories.

# MILITARY SCIENCE AND TACTICS

Professor Russel P. Hartle, Major, Infantry, U. S. A.

Assistant Professor Alexander C. Sullivan, Major, Coast Artillery Corps, U. S. A.

Assistant Professor Charles Challice, Jr., Captain, Quartermaster Corps, U.S.A.

Assistant James McGrath, Post-Comm. Sergeant, (Retired), U. S. A.

Assistant Harry Shutts, Sergeant, Quartemaster Corps, U.S.A. Assistant Eugene J. Callahan, Sergeant, Coast Artillery Corps, U. S. A.

Assistant Frank H. Hemmer, Sergeant, Infantry, U. S. A.

ASSISTANT FLOYD TODD, Sergeant, Infantry, U. S. A.

The Agricultural College of Utah is a land grant institution under the provisions of an Act of Congress of July 2nd, 1862, donating land for the establishment of colleges where the leading object shall be practical instruction in Agriculture and the Mechanic Arts, including Military Tactics.

A two years course of military training is required at this Institution of all physically fit made students as a prerequisite for graduation.

This training is an excellent course in the science of handling men, a knowledge of which is necessary in all walks of life after graduation.

The War Department has agreed to permit the course of military training at this Institution to be devoted to training the students to be Reserve Officers of the United States Army. Three branches of the Service or Reserve Officers Training Corps Corps. Units have been established here: Infantry, Coast Artillery and Motor Transport. The entire organization is designated officially as "The Reserve Officers' Training

Upon entering the institution, each student is permitted to select the R. O. T. C.

Unit which he wishes to follow.

Each R. O. T. C. Unit has two courses—the Basic Course and the Advanced Course. In the first year of military training, the Basic Course is identical for all three units. It consists of a drill period of three hours duration from 10:00 A. M. to

1:00 P. M. each Thursday. During the Spring Quarter, this period is devoted to

rifle and pistol practice.

During the second year the students in the Basic Course drill for two hours each Thursday from 10:00 A. M. until noon. The last hour is devoted to a course of lectures and practical demonstrations covering the following subjects:

Military Courtesy and Discipline Care and Handling of Arms and Equipment

Guard Duty Minor Tactics Liaison

Personal Hygiene, First Aid and Sani-Topography and Map Reading tation

Signalling

In addition to the above, the Sophomore students in each Unit receive special instruction in the material pertaining to the particular branch of the Service selected. For the Infantry students, instruction in field engineering and military orders and messages is given in addition to the above. For the Motor Transport students, theoretical and practical instruction is given in automotive and gas engines in general, in the assembling of automobile and truck bodies, in automotive repair work and in

the handling of automobile and truck bodies, in automotive repair work and in the handling of truck convoys on the road.

The one hour weekly special instruction for Sophomores in the Basic Coast Artillery Course comprise practical work with an 8 inch Howitzer and a 155 mm. G. P. F. gun. Both of these guns represent types of guns that were handled by the Coast Artillery Troops in action in France. In addition, instruction is given in the types of powders, explosives, projectiles, primers and fuses used; instruments used for determining ranges to targets; artillery telephones and the different types of designs used for expecting ranges to a negwy targets. In this connection, for types of devices used for correcting ranges to enemy targets. In this connection, for the year 1921-1922, it is planned to set up a model plotting room for determining

ranges similar to the plotting rooms actually existing in our coast defenses today.

Students in the Basic Course who so elect may take the six weeks course of instruction at a Basic Camp during the summer following the first or second year of the Basic Course. Transportation to and from the camp, rations, clothing, medical and dental treatment will be furnished by the Government.

After completing the two years Basic Course of instruction students who have successfully qualified are eligible to continue their education in the Advanced Course of the unit which they selected in the Freshman year. To be thus eligible, students must be considered qualified by the President of the Agricultural College of Utah and

must be considered qualified by the President of the Agricultural College of Utah and by the Professor of Military Science and Tactics.

Students who elect the Advanced Course agree in writing to pursue the course until graduation and to attend the six weeks course of practical instruction known as the Advanced Summer Camp which starts about the middle of June between the Junior and Senior years. The student pursuing the Advanced Course receives commutation of rations, about 53 cents a day, until graduation. Travel to and from the camp and living expenses at the camp, including medical attention, are provided for by the United States Government. In addition, the advanced student resident to 0.0 a day while at camp. ceives \$1.00 a day while at camp.

During the summer of 1920, the Infantry Camp was held at Camp Lewis,

Washington, and the Coast Artillery and Motor Transport Camps at the Presidio of

San Francisco, California.

During the Junior and Senior years, the Advanced Course for all three units in-

cludes the following subjects:

Camp Sanitation-Care of Troops in the field.

Minor Tactics.

Topography and Map Reading.

Administration.

In addition to the above, the instruction in the Junior and Senior years of the different units comprises the following subjects: Tactical Problems. Handling of Men.

Drills, Marches and Ceremonies. Care and Handling of Arms and COAST ARTILLERY: Gunnery

Equipment Rifle and Pistol Practice.

Personal Hygiene, First Aid and Sani-

tation. Interior Guard Duty.

Military Courtesy and Discipline.
Military History.
Military Policies.

Orientation and Surveying Coast Artillery Drill Regulations.

Exterior Ballistics. Ordnance.

Field Engineering.

Common Law.

Military Law

Organization of the Artillery. Tactical Artillery Problems.

Note: A knowledge of mathematics up to and including plane trigonometry is essential before enrollment in the Advanced Coast Artillery Course.

MOTOR TBANSPORT.

Advanced Motor Vehicle Engineering. Motor Vehicle Construction and Design Administration and Maintenance. Organization Operation.
Economics of Motor Transportation. Convoy Problems.

Transportation Surveys.

Transportation Surveys.

Upon the satisfactory completion of the Advanced Course, the student, if he so desires and is so recommended by the President of the Agricultural College of Utah and the Professor of Military Science and Tactics, will be given a commission as Second Lieutenant in the Officers' Reserve Corps in the branch in which he qualified. The student who has accepted a commission in the Reserve Corps of the United States Army will be obliged to attend a two weeks camp each summer unless he is excused for urgent reasons. His transportation to and from the camp will be paid by the Government and while at the camp he will receive the full pay of his rank in the Army. Reserve Officers are assigned by the Corps Area Commander to a company near their place of residence which will be immediately mobilized upon proclamation of the President of the United States that a state of war exists and that the Organized Reserve Forces of the Army of the United States are to be mobilized.

The Junior and Senior Advanced students receive three credits each quarter or nine credits each year.

Basic Course.

Thursday 10:00 a. m. to 1:00 p. m. The Military Department. Advanced Course.

Junior: Th. 10:00 12:00 M. W. F. 10:00 to 11:00 M. W. F. 11:00 12:00 Senior: Th. 10:00 to 12:00 The Military Department

Note: Courses are numbered as follows: Infantry, 1; Coast Artillery, 2; Motor Transport, 3. The sub-headings will be as follows: Freshman, a; Sophomore, b; Junior, c, and Senior, d.

Examples of above: A Freshman registering in Infantry would

register in Military Science la.

A Junior registering in Coast Artillery would register in Military

Science 2c. A Senior registering in the Senior year of the Motor Transport Unit would register in Military Science 3d.

# MODERN LANGUAGES AND LATIN

Professor Arnold.

JUNIOR COLLEGE COURSES.

#### FRENCH.

1. FIRST YEAR FRENCH. Walther and Ballard's Beginner's French for grammar and conversation. About 400 pages of easy prose are read. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 8:00.

Professor Arnold

la. First Year French. Will also start in Winter quarter and run five hours each week with five credits and continue through the Spring quarter three hours each week with three credits.

Winter quarter daily except Thursday 11:00.

Spring quarter M. W. F. 8:00.

Professor Arnold

2. Second Year French. French Composition for gramatical review and writing in French; Lavisse's Histoire de France for conversation; translating works of nineteenth century authors. Prerequisite, French 1 or two years high school French. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 10:00.

Professor Arnold

#### GERMAN.

1. First Year German. Grammar, reading and conversation. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 8:00.

Professor Arnold

#### SENIOR COLLEGE COURSES.

#### FRENCH.

3. Reading course in Moliere's plays. Prerequisite, two years of college French or three of high school. Fall, Winter and Spring quarters. One credit each quarter.

T. 12:00.

Professor Arnold

4. French Conversation. Games, dictation, learning of a one act play and writing business letters. Fall, Winter and Spring quarters. Prerequisite, two years of college French or three years of high school. One credit each quarter.

Th. 12:00.

Professor Arnold

- 5. Research work in French periodicals and books on any one of the following subjects:
  - a. Landscape gardening.
  - b. Percheron horses.
  - c. French finance.
  - d. French scientific reports.
  - e. Home economics.

The work will consist of outside readings and weekly reports to the instructor. Prerequisite, two years of college French or three years of high school. One credit each quarter.

Hours to be arranged with instructor.

Professor Arnold

#### GERMAN.

3. Scientific German. Rapid reading of scientific texts in different subjects according to the course of each student. Specially recommended for students who have had two years' work in German in high school or college and are planning to do advanced work in agronomy, botany or other sciences. Fall, Winter and Spring quarters. One credit each quarter.

Hours to be arranged with instructor.

Professor Arnold

#### LATIN.

1. Grammar and reading and study of English vocabulary.
Fall, Winter and Spring quarters. Two credits each quarter.
T. S. 10:00.

Professor Arnold

# SPANISH.

1. Grammar, conversation and reading. Fall and Winter quarters. Three credits each quarter.

T. Th. S. 9:00. Professor Arnold
1a. Same course repeated, Spring quarter. Three credits.

M. W. F. 11:00. Professor Arnold

SPANISH. Business correspondence, reading and conversation. Spring quarter. Three credits.

T. Th. S. 9:00.

Professor Arnold

JOURNALISM. (English 25) News collecting, study of country and city papers, preparation of agricultural feature stories for magazines and newspapers. Students of ability taking this course may sell much of their class work to the college publicity department thus getting much training in publicity work and agricultural editorship. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 1:00.

Professor Arnold

## MUSIC

Professor Thatcher.
Associate Professor Johnson.

Students may enter the College orchestra or band without taking any other music course. One credit each quarter.

1. ELEMENTARY THEORY. Reviews the ground work necessary for students desiring a thorough knowledge of music. Keys, scales, intervals, melody writing, sight singing. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 9:00

Professor Thatcher.

2a. Appreciation and History of Music. From text. Fall, Winter and Spring quarters. Three credits each quarter.
M. W. F. 11:00.

Professor Thatcher.

2b. Analysis and Criticism. Arranged to supplement private music study. Fall quarter. Two credits.

T. Th. 10:00.

Professor Thatcher.

2c. AMERICAN MUSIC. Winter quarter. Two credits.
T. Th. 10:00.

Professor Thatcher.

3. ELEMENTARY HARMONY. Text used. Home study, 6 hours as a minimum. Applied music, individual and ensemble. Prerequisite, 2 years' study, piano or equivalent. Fall, Winter and Spring quarters. Five credits each quarter.

M. W. F. 10:00.

Professor Thatcher.

4. ADVANCED HARMONY AND ANALYSIS. Applied music, individual and ensemble. Prerequisite, Music 3. Home study increased for this course. Five hours, Fall, Winter and Spring quarters. Five credits each quarter.

Hours to be arranged.

Professor Thatcher.

5. COUNTERPOINT AND SMALL FORMS. Applied music, individual and ensemble. Prerequisite, Music 4. Fall, Winter and Spring quarters. Five credits each quarter.

Hours to be arranged.

Professor Thatcher.

6. Orchestra Class. Provides study of standard orchestra works. 2 hours a week. One credit each quarter.

Hours to be arranged.

Professor Thatcher.

7. CHOIR. To furnish music for chapel exercises and special occasions. Three hours per week. Fall, Winter and Spring quarters. One credit each quarter.

M. W. F. 12:00.

Associate Professor Johnson.

8a GLEE CLUB. An organization of men. Membership is limited in number and decided by competition. Three hours a week. Days and hours of practice to be arranged. Fall, Winter and Spring quarters.

\*\*Associate Professor Johnson.\*\*

8b. Ladies' Chorus. Membership is limited and decided by competition. Three hours a week. The Glee Club and Ladies' Chorus join in giving the college opera. Fall, Winter and Spring quarters.

Associate Professor Johnson

9. Public School Music. Ability to play and sing required. Applied music in choir or glee club. Deals with theory and methods of teaching, music supervision, programs. Three hours per week. Any quarter. Two credits.

Hours to be arranged. Associate Professor Johnson.

10. BAND. To provide for study and practice of band instruments and to furnish music for athletic meets and outdoor gatherings. Fall, Winter and Spring quarters. One credit each quarter.

Private Instruction may be had (the pupil paying the teacher's fee) in the following: Voice, Piano, Violin, Orchestral and Band Instruments. One credit a quarter in each course will be allowed if pupil is enrolled in Applied Music only.

Recitals by advanced students are given once a month.

#### PHYSICAL EDUCATION

Professor Preston, M. D.
Medical Supervisor of Students.
Assistant Professor Jensen.
Assistant Professor Romney.
Miss Carlson.

Physical education is arranged to give each student sufficient exercise to maintain physical health and a high degree of mental efficiency.

After careful physical examination work is prescribed to meet the need of each individual. Physical training is required of all students.

Adequate opportunity is afforded students to take part in class games and contests. Inter class sports are open to students who have never won a letter or who are not trying for the teams.

Athletic competition with colleges and universities in the State and Rocky Mountain Conference forms an interesting part of the work. The promotion of honor and college spirithrough athletic games and meets constitutes an important feature of the department.

#### PHYSICAL EDUCATION FOR MEN

1. GYMNASIUM WORK. Required of all students. Swed ish gymnastics, callisthenic drills and gymnasium games. Students taking the course must learn to swim before receiving credit. Fall, Winter, and Spring quarters.

Sec. 1, M. W. F. 9:00.
Sec. 2, T. Th. S. 9:00.
Sec. 3, M. W. F. 10:00.
Sec. 4, T. Th. S. 10:00.
Sec. 4, T. Th. S. 10:00.
Sec. 8, M. W. F. 3:00.
Assistant Professor Jensen

2. Corrective Gymnastics. Designed especially for Fed eral men or others who are unfit physically to do the regula gymnasium or athletic work. The work will be individual.

Hours to be arranged.

Professor Prestor

3. FOOTBALL. Practice in football technic, equipment theory of defensive and offensive play; study of rules, duties o officials, schedule making and general preparation for coach ing. Fall quarter.

Daily, 5:00.

Assistant Professor Romney

4. Track and Field Athletics. Instruction and practice; how to choose men for different events; track rules and duties of officials; theory of training for endurance, speed skill, strength; problems of temperament, climate, traveling and professionalism. Spring quarter.

Daily, 5:00.

Assistant Professor Romney

5. Basketball. Instruction and practice; history, principles and technic of the game; methods of training and coaching; study of rules and duties of officials. Winter quarter.

Daily, 5:00.

Assistant Professor Romney.

6. Baseball. Instruction and practice. Spring quarter. Daily, 5:00.

Assistant Professor Romney.

#### PHYSICAL EDUCATION FOR WOMEN

MISS CARLSON.

The chief purpose of the department is for the physical betterment of the women of the Institution. It strives to develop such physical habits as make for vigor and efficiency and counteract the sedentary life of the student.

10. ELEMENTARY GYMNASTICS. A course in elementary gymnastics planned to meet the needs of those who have had no physical education. For all girls registered as vocational students. Fall, Winter and Spring quarters. One credit each quarter.

T. Th. 10:00.

Miss Carlson.

11. PRACTICAL GYMNASTICS. Designed to furnish activity of such a kind and in such a manner as will secure erect carriage and good motor control. The course consists of lectures in hygiene, general gymnastics, folk dancing, plays and games. Required for graduation. Fall, Winter and Spring quarters. One credit each quarter.

Sec. 1, T. Th. S. 11:00; Sec. 2, M. W. F. 10:00.

Miss Carlson.

12. Advanced Practical Gymnastics. A continuation of Physical Education 11. Required for graduation. Prerequisite, Physical Education 11. Fall, Winter and Spring quarters. One redit each quarter.

Sec. 1, T. Th. S. 10:00; Sec. 2, M. W. F. 11:00.

Miss Carlson.

13. Aesthetic Dancing. A course in dancing technic, fun damentals of interpretive work and descriptive dances Prerequisite, Physical Education 11. Fall, Winter and Spring quarters. One credit each quarter.

M. W. F. 2:00.

Miss Carlson

14. PLAYS AND GAMES. A practical course designed t make students more proficient in playing the more commo competitive games as baseball, volley ball, hockey, tennis an hand ball. Prerequisites, Physical Education 11 and 12. Fal Winter and Spring quarters. One credit each quarter.

T. Th. 2:00.

Miss Carlson

15. Social Dancing. Instruction in standardized moder dances for men and women. Winter quarter.

W. 5:00.

Miss Carlson

16. Interpretive Dancing. A course in advanced technic descriptive dramatic dancing and dance composition. Prerequirite, Physical Education 13. Fall, Winter and Spring quarter One credit each quarter.

M. W. F. 3:00.

Miss Carlson

#### **PHYSICS**

Professor Frank L. West. Associate Professor Gardner. Mr. Edlefsen.

#### JUNIOR COLLEGE COURSES.

la, 1b, 1c. General Physics. The elements of physics, in cluding mechanics, heat, electricity and magnetism, sound ar light. Physics 1b (Electricity and Magnetism) is open to Winter course students. Fall, Winter and Spring quarters. Three credits each quarter.

Lec. Th. S. 9:00; lab. M. T. W. or Th. 2:00 to 5:00.
Fall and Winter quarters.

Mr. Ed.

Spring quarter.

Mr. Edelfsen Professor West

2a. Applied Mechanics and Engines. Prerequisite, high school physics. Fall quarter. Five credits.

Lec. T. Th. S. 8:00; lab. M. W. or T. Th. 2:00 to 5:00

Professor West and Mr. Edlefsen.

2b. Applied Electricity. Prerequisite, high school physics. Winter quarter. Five credits.

Lec. T. Th. S. 8:00; lab. M. W. or T. Th. 2:00 to 5:00.

Professor West and Mr. Edlefsen

2c. Heat, Light and Sound. Prerequisite, high school physics. Spring quarter. Five credits.

Lec. T. Th. S. 8:00; lab. M. W. or T. Th. 2:00 to 5:00.

Professor West and Mr. Edlefsen.

3. Household Physics. Four credits. Fall quarter.
M. T. W. F. 9:00. Professor West.

4. Applied Electricity. Prerequisite, elementary Physics. all quarter. Three credits.

M. W. F. 10:00.

Mr. Edlefsen.

6. METEROLOGY OR THE PHYSICS OF THE ATMOSPHERE. he methods of weather observations, predictions, frost warnings and the relation of climate to agriculture. Prerequisite, lementary Physics. Spring quarter. Three credits.

M. W. F. 8:00.

Professor West.

11. Telegraphy. Morse or International code. Any quarter.

Time to be arranged.

Professor West.

### SENIOR COLLEGE COURSES.

5. CHEMICAL PHYSICS. (Chemistry 16.) Including the tomic theory, kinetic theory of gases; gaseous, liquid and solid

states; solutions; thermochemistry, electro chemistry and radioactivity with special emphasis on osmotic pressure and diffusion. Prerequisites, Elementary Physics and Chemistry. Fall and Winter quarters. Three credits each quarter.

M. W. F. 8:00.

Mr. Edlefsen.

7. Advanced Laboratory Work. One to five credits each quarter. Recommended to students taking Physics 4 and 5.

Daily, except Saturday, 2:00 to 5:00. Mr. Edlefsen.

8. THERMODYNAMICS, AND PHYSICAL CHEMISTRY. Pre-requisite or parallel, Calculus.

(Not given in 1921-22).

Professor West.

9. THEORETICAL MECHANICS. Prerequisite, Calculus. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 8:00.

Professor Gardner.

10. DIRECT AND ALTERNATING CURRENT ELECTRICITY AND ITS APPLICATION TO INDUSTRY. Winter and Spring quarters. Three credits each quarter.

M. W. F. 10:00.

Mr. Edlefsen

12. Hydrodynamics. Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 8:00.

Professor Gardner.

13. Seminar. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 11:00.

Professor West

### **PHYSIOLOGY**

Professor Greaves.
Assistant Professor Carter.

### JUNIOR COLLEGE COURSE

1. Physiology. A discussion of movement, sensation, circulation, respiration, digestion, absorption, metabolism and excretion. Questions of hygiene are considered in detail.

Sec. 1. Fall and Winter quarters. Three credits each quarter.

T. Th. S. 9:00.

Sec. 2. Spring quarter. Five credits.

Daily except Thursday 10:00. Assistant Professor Carter.

#### SENIOR COLLEGE COURSE.

2. Physiology. An advanced course in special phases of physiology. Special emphasis will be placed upon the structure and function of the nervous system. Spring quarter. Three credits.

Hours to be arranged.

Professor Greaves.

#### POLITICAL SCIENCE

Professor Daines. Professor Israelsen. Judge Bullen.

#### VOCATIONAL COURSES

a. Business Law. The elementary principles of law relating to common business transactions, including contracts, sales, negotiable paper, agency, partnerships and corporations. Winter and Spring quarters. Three credits each quarter.

M. W. F. 8:00.

Judge Bullen.

b. CIVICS. Government of the United States. Winter quarter. Three credits.

T. Th. S. 8:00.

Professor Daines.

c. Civics. Government of Utah, state and local. Spring quarter. Three credits.

T. Th. S. 8:00.

Professor Daines.

#### JUNIOR COLLEGE COURSES.

1a. GOVERNMENT OF THE UNITED STATES. In this course

the government of our country will be historically and critically studied. Special attention will be given to the origin and development of the Constitution. Fall quarter. Three credits.

M. W. F. 11:00.

Professor Daines.

1b. State Government. The chief purpose of this course will be to show the relationship of the states and the nation in our federal form of government. The government of Utah will be studied in detail. Winter quarter. Three credits.

M. W. F. 11:00.

Professor Daines.

1c. Political Parties. A study of the development, practices and importance of political parties. Special attention will be given to the various schemes for political reform. Spring quarter. Three credits.

M. W F. 11:00.

Professor Daines.

2. Municipal Government. A thorough study of governmental practices and problems in our American cities. Alternates with Political Science 9. Spring quarter. Three credits.

M. W. F. 9:00.

Professor Daines.

#### SENIOR COLLEGE COURSES.

4. Commercial Law. The law of contracts, agency and commercial paper. Fall and Winter quarters. Three credits each quarter.

(Not given in 1921-22).

Judge Bullen.

5. COMMERCIAL LAW. The law of debtor and creditor, sales, partnerships and corporations. Fall and Winter quarters. Three credits each quarter.

T. Th. S. 8:00.

Judge Bullen.

6. Irrigation Law or the Law of Waters. (Given by the Departments of Political Science and Irrigation and Drainage conjointly.) The right of appropriation, natural and arti-

ficial water courses, limitation of use, protection of rights, disposal of rights, percolating water, distribution of water, etc. Winter and Spring quarters. Three credits each quarter.

T. Th. S. 8:00.

Winter quarter, Professor Israelsen. Spring quarter, Judge Bullen.

7. AMERICAN CONSULAR AND DIPLOMATIC SERVICES. Critical analysis of our consular service and the principles and practices of American diplomacy. Three credits.

(Not given in 1921-22).

8. Comparative Government. A comparative study of the important present day governments of the world. Alternates with Political Science 10.

(Not given in 1921-22).

9. THEORY OF GOVERNMENT. The principles and structures of politically organized society. Alternates with Political Science 2.

(Not given in 1921-22).

10. World Politics. (History 15). A study of the methods and practices governing international relations. Alternates with Political Science 8. Fall and Winter quarters. Three credits each quarter.

M. W. F. 9:00.

Professor Daines.

#### PUBLIC SPEAKING

Assistant Professor Dunn.

#### JUNIOR COLLEGE COURSES.

2. Vocal Interpretation. A course in the vocal interpretation of literature. The aim of the course will be to develop the ability to interpret the printed page with adequate vocal and

emotional response. Ballads, lyrics, short stories and scenes from Shakespeare's plays and from modern plays of literary merit will be assigned for study. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 11:00.

3. Extemporaneous Speaking. Practice in extemporaneous speaking on subjects of current interest with some attention to the preparation of speech outlines. Supplementary work in voice development and the correction of defects in speech. Occasional practice assignments in reading. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 9:00.

#### SENIOR COLLEGE COURSES.

5. Public Speaking. A study of the principles of effective public speaking with practice in the preparation and delivery of speeches adapted to various audiences. Occasional practice assignments from the masterpieces of oratory. Prerequisite, Public Speaking 3. Fall, Winter and Spring quarters. Two credits each quarter.

T. S. 10:00.

9. DRAMATIC INTERPRETATION. A laboratory course in the Modern Drama. The plays of Ibsen, Hauptmann, Maeterlinck, Shaw, Galsworthy, Yeats, Synge and other contemporary dramatists will be studied from the interpretative side. Members of the class will vocally interpret characters and scenes assigned for individual study and several plays will be presented to the public as part of the class work. Prerequisite, Public Speaking 2. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 8:00.

#### RANGE MANAGEMENT

Assistant Professor Becraft.

#### VOCATIONAL COURSES.

a. ELEMENTARY RANGE MANAGEMENT. Practical range problems including methods of handling live stock. Winter quarter. Three credits.

M. W. F. 8:00. -

Assistant Professor Becraft

b. ELEMENTARY FORESTRY. Practical phases of timber production and forest management, mensuration and protection. Winter quarter. Three credits.

M. W. F. 11:00.

Assistant Professor Becraft.

#### JUNIOR COLLEGE COURSES.

1. Range Management. A general course including history, forage, plants, poisonous plants, range improvement, reconnaissance, carrying capacity and methods of handling livestock. Prerequisite, Botany 1 or 2. Winter quarter. Three credits.

M. W. F. 9:00.

Assistant Professor Becraft.

7. Forestry, A general introductory course including silviculture and forest management, mensuration, utilization, protection and economics. Prerequisite, Botany 1 or 2. Winter quarter. Three credits.

M. W. F. 10:00.

Assistant Professor Becraft.

#### SENIOR COLLEGE COURSES.

8. Research. For students specializing in Range Management. Time and credit to be arranged with instructor.

Assistant Professor Becraft

#### RURAL PUBLIC HEALTH

Professor Greaves.
Pressor Preston, M. D.
Professor Ray B. West.
Professor Frederick.
Professor Whitacre.
Assistant Professor Carter.
Assistant Professor Dancey.

Students who wish to specialize in Public Health work will be required to present for graduation 24 hours credit to be selected from this group of subjects. They must include Rural Public Health 18 (Public Health and Preventative Medicine) in addition to the fulfilling of all other requirements.

#### IUNIOR COLLEGE COURSES.

1. Pathogenic Bacteriology (Bacteriology 3). Fundamentals, morphopology, biology, function, etc. The pathogenic bacteria are considered in relation to specific diseases especially with regards the subject of immunity. Breakage deposit \$2.50. Prerequisite Bacteriology 1 or 2. Spring quarter. Five credits.

Lec. M. W. F. 11:00; lab. W. F. 2:00 to 5:00.

Professor Greaves.

- 2. Physiology (Physiology 1.). A discussion of movement, sensation, circulation, respiration, digestion, absorption, metabolism and excretion. Questions of hygiene are considered in detail.
- Sec. 1 Fall and Winter quarters. Three credits each quarter.

T. Th. S. 9:00.

Sec. 2. Spring quarter. Five credits.

Daily except Thursday 10:00.

Assistant Professor Carter.

3. Rural Water Supply and Waste Disposal (Rural Sanitation 6.) Methods of (a) supplying farm and rural communities with sanitary water; (b) handling waste of the farm and small town. Spring quarter. Three credits.

T. Th. S. 8:00.

Professor West.

4. Parasitology (Zoology 5). The classification, structure, and life history of animal parasites; these include the pathogenic protozoans, flukes, tapeworms, roundworms, and arthropods that act as carriers of organisms injurious to man and the domestic animals. Fall quarter. Four credits.

Lec. T. Th. S. 9:00; lab. M. 2:00 to 5:00.

5. First Aid. Treatment of emergencies and accidents. Two sections. Winter quarter. Two credits.

Hours to be arranged

Professor Preston

6. Home Health and Nursing. Special emphasis on the prevention of disease and on the building up of the highest degree of health as the principal function of the home nurse. The treatment of functional disturbances, injuries, wounds, etc. receive due attention. Lectures, discussions and laboratory demonstrations. The reading of reference works, and special reports are required. Winter and Spring quarters. Three credits each quarter.

Lec. T. Th. 9:00; lab. any afternoon 2:00 to 5:00.

Assistant Professor Dancey.

### SENIOR COLLEGE COURSES.

7. Sanitation (Bacteriology 8). Principles of sanitation; nature of disease, its spread and means of prevention and disinfection; sanitary arrangement and construction of farm buildings. Prerequisite, Bacteriology 1 or 2. Winter and Spring quarters. Three credits each quarter.

T. Th. S. 11:00.

Professor Greaves.

8. Advanced Physiology. (Physiology 2) An advanced course in special phases of physiology. Special emphasis will be placed upon the structure and function of the nervous system. Spring quarter. Three credits.

Hours to be arranged.

Professor Greaves.

9. Eugenics (Zoology 8). The principles of genetics as applied to the human race. Attention is given to the historical development and needs for eugenics, the inheritance of physical, mental, and moral traits; human crosses, consanguineous marriages, eugenic procedure, and other principles which influence the innate qualities of human beings. Prerequisite, Zoology 7. Spring quarter. Four credits.

W. Th. F. S. 11:00.

10. DAIRY BACTERIOLOGY (lecture). (Bacteriology 5a). The bacteria of milk, butter and cheese; communicable diseases in their relation to the dairy; contamination by air, water, utensils; desirable and undesirable fermentaion. Winter quarter. Two credits.

T. Th. 8:00.

Assistant Professor Carter.

11. Dairy Bacteriology. (Laboratory), (Bacteriology 5b). Methods used in the bacteriological examination of milk and dairy products. May accompany Bacteriology 5a. Breakage deposit, \$2.50. Prerequisite, Bacteriology 1 or 2. Winter quarter. Three credits.

Lab. M. W. F. 2:00 to 5:00.

Assistant Professor Carter.

13. Special Diets (Foods 6). Choice and preparation of food under conditions that present definite problems; as for infants and children, school lunches, and the sick. Laboratory practice in preparation of foods suitable to demands in given instances. Collateral reading. Prerequisite, Foods 4. Fall quarter. Three credits.

Lec. M. W. 11:00; lab. F. 2:00 to 5:00.

Professor Whitacre

14. Sanitary Statistics (Bacteriology 6). Vital statistics showing the effect of sanitary precautions upon health in cities and rural communities. Fall quarter. Two credits.

T. Th. 8:00.

Assistant Professor Carter.

15. School Sanitation (Bacteriology 14). Sanitary problems confronting the teacher in the rural and urban districts. Fall quarter. Three credits.

T. Th. S. 11:00.

Professor Greaves.

16. Sanitary Analysis (Bacteriology 6). Methods used by the sanitary inspector in examining water, milk and other foods. Breakage deposit \$2.50. Prerequisites, Chemistry 6 and Bacteriology 1 or 2. Time and credit to be arranged.

Professor Greaves.

18. Public Health and Preventative Medicine. Lecture, demonstration and clinic course. Cases will be shown of the various communicable and preventable diseases. Emphasis will be placed upon their detection and diagnosis and methods of prevention and eradication. Actual practice under direction of a physician in inspection and health supervision of schools will form a part of this course. Prerequisites, Physiology 2 and Bacteriology 8. One lecture and thre ehours clinic each week. Fall, Winter and Spring quarters. Hours to be arranged with instructor.

Professor Preston.

19. Advanced Bio-Chemistry (Bacteriology 15). Bacteriological and chemical methods used in diagnosing of diseases. Winter quarter. Five credits.

Professor Greaves.

20. Sanitary Inspection. (Veterinary Science 20). Inspection of slaughter houses, packing houses, butcher shops, etc., and means of detection of communicable diseases and spoilage in meat products. Prerequisite, Bact. 2. One quarter. Three credits.

Hours to be arranged. Professor Frederick.

#### SOCIOLOGY

PROFESSOR M. H. HARRIS.

#### SENIOR COLLEGE COURSES

1. Rural Sociology. (Agricultural Economics 6). The principles of sociological science applied to the problems of modern agricultural and rural communities. Fall quarter. Three credits.

T. Th. S. 9:00.

Professor Harris.

2. Principles of Sociology. The foundation of sociology; social organs, social structure and social activities. Winter quarter. Three credits.

T. Th. S. 9:00.

Professor Harris.

3. APPLIED SOCIOLOGY. Social problems and social policy. An analysis of the causes, extent, treatment and prevention of poverty, defectiveness, vice and/crime will be made. In connection with this course it is planned to visit the state industrial school, penitentiary, insane asylum, etc. Prerequisite, Sociology 2. Spring quarter. Three credits.

T. Th. S. 9:00.

Professor Harris.

#### STENOGRAPHY AND TYPEWRITING

PROFESSOR P. E. PETERSON MR. HOWELL MISS FOGLEBERG.

#### STENOGRAPHY

#### VOCATIONAL COURSES.

a. ELEMENTARY SHORTHAND. Thorough drill in the fundamental rules of the Isaac Pitman or Gregg system of short-

hand. Fall, Winter and Spring quarters. Four credits each quarter.

Sec. 1. Pitman Shorthand, daily except Saturday 3:00.

Mr. Howell

Sec. 2. Gregg Shortland, daily except Thursday 11:00.

Miss Fogleberg

b. ADVANCED SHORTHAND. Advanced work in shorthand. Drill in the attainment of speed. Open to both Gregg and Pitman students. Fall, Winter and Spring quarters. Four credits each quarter.

Daily except Thursday 10:00.

Mr. Howell

Special. A special class will be held for such students as desire to take stenography during the Winter quarter, the work given being the same as Stenography a. Winter quarter. Four credits.

Daily except Saturday 2:00.

Mr. Howell

#### JUNIOR COLLEGE COURSES

1. College course in stenography. Fall, Winter and Spring quarters. Four credits each quarter.

Sec. 1. Pittman shorthand, daily except Saturday 3:00.

Mr. Howell

Sec. 2. Gregg shorthand, daily except Thursday 11:00.

Miss Fogleberg

2. Advanced college course in stenography. Fall, Winter and Spring quarters. Open to Gregg and Pitman students. Four credits each quarter.

Daily except Thursday 10:00.

Mr. Howell

#### PENMANSHIP

PENMANSHIP. The aim in this class will be to develop a free legible business handwriting. Fall, Winter and Spring quarters. One credit each quarter.

M. W. F. 11:00.

Mr. Howell

#### **TYPEWRITING**

#### VOCATIONAL COURSES

Students must consult the instructor in order to arrange for sections.

- a. Beginning Course. Correct fingering and proper manipulation of the machine. Fall, Winter and Spring quarters. One credit each quarter.
  - Sec. 1. 8:00 daily except Saturday.
  - Sec. 2. 9:00 daily except Saturday.
  - Sec. 3. 10:00 daily except Saturday.
  - Sec. 4. 11:00 daily except Saturday.
  - Sec. 5. 2:00 daily except Saturday.
  - Sec. 6. 3:00 daily except Saturday.

Miss Fogelberg

- b. Second Year Course. Daily excerises in which accuracy and speed are attained. Fall, Winter and Spring quarters. One credit each quarter.
  - Sec. 1. 8:00 daily except Saturday.
  - Sec. 2. 9:00 daily except Saturday.
  - Sec. 3. 10:00 daily except Saturday.
  - Sec. 4. 11:00 daily except Saturday.
  - Sec. 5. 2:00 daily except Saturday.
  - Sec. 6. 3:00 daily except Saturday.

Miss Fogleberg

#### TEXTILES AND CLOTHING

Professor Moen. Miss Richardson. Mrs. Ormsby.

Students who elect Textiles and Clothing as their major

are required to complete the following courses: Textiles and Clothing 1, 2, 5 and 6.

#### VOCATIONAL COURSE

a. Hand Sewing and Garment Making. Planned for students who can spend only a short time at the College. Training in hand and machine sewing. Drafting and use of commercial patterns. Selection of suitable materials for underwear and dresses. Design and construction of simple garments. Fall quarter. Will be repeated in Winter and Spring quarters. Four credits.

Daily, except Saturday, 10:00 to 12:00.

Mrs. Ormsby

#### JUNIOR COLLEGE COURSES

1. Review of Technic and Elementary Dressmaking. The application of hand and machine sewing to underwear, children's clothing and simple dresses. Drafting, designing, use of patterns and consideration of suitable materials. Prerequisites or parallel, Art 1, 2 and 21. Sections 1, 2 and 4, Fall, Winter and Spring quarters. Two credits each quarter. Section 3, Winter and Spring quarters. Three credits each quarter.

Sec. 1. M. W. 2:00 to 5:00. Sec. 2, T. Th. 2:00 to 5:00. Sec. 3, M. W. F. 2:00 to 5:00. Sec. 4, T. Th. 2:00 to 5:00. Mrs. Ormsby Miss Richardson Professor Moen Mrs. Ormsby

2a. Textile Fabrics. This course considers the primitive forms and present methods of carding, spinning, weaving and finishing of cotton, wool, silk, linen and other important fibres, and their properties and values in relation to manufacture and use. Fall quarter. Three credits.

M. W. F. 9:00.

Professor Moen

2b. Economics of Textiles. Identification and grading of textile materials, their names, prices and widths. Qualitative

testing. Training in selection of ready-made clothing and house hold furnishings, clothing budgets, etc. Prerequisites, Clothing 1b, Textiles 2a and Economics 1. Winter quarter. Three credits M. W. F. 9:00.

\*\*Professor Moesting\*\*

\*\*Professor Mo

2c. Chemistry of Textiles. Chemical methods for the identification and estimation of the textile fibres, including complete quantitative determination of cotton, wool, silk and liner substances in fabrics. Chemistry of dyeing and bleaching. Prerequisites, Chemistry 3, Textiles and Clothing 2a and 2b. Spring quarter. Three credits.

Hours to be arranged.

Assistant Professor Hirst

- 3. MILLINERY. Designing and drafting patterns for hats construction of frames from buckram, rice net and wire; various methods of covering foundations. Preparation of trimmings Renovation of materials. Prerequisites or parallel, Art 1 and 21 Sections 1 and 2, two credits each quarter. Sections 3 and 4, three credits.
  - Sec. 1, Fall and Winter quarters, W. F. 10:00 to 12:00.
  - Sec. 2, Winter and Spring quarters. T. Th. 10:00 to 12:00
  - Sec. 3, Fall quarter, M. W. F. 2:00 to 5:00.
  - Sec. 4, Winter quarter, M. W. F. 2:00 to 5:00.

Miss Richardson

4. Handwork and Weaving. Lectures and laboratory work including practical instruction in the fundamental stitches applicable to household furnishings and clothing. The selection, preparation, care and repair of bed linen, table linen, draperies, etc. Simple weaving, crocheting, knitting and tatting. Prerequisites, or parallel, Art 27k and Clothing 1. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 10:00 to 12:00.

Professor Moen

#### SENIOR COLLEGE COURSES.

5a. HISTORY OF COSTUME. A study of Egyptian, Grecian.

Roman, early and modern French costumes. Three lectures. Fall quarter. Three credits.

M. W. F. 10:00.

Professor Fletcher

5b. Costume Design. Design in costume, rhythm of line, harmony of color. Sketching gowns and hats; study of styles suitable to various types. Winter quarter. Three credits.

M. W. F. 10:00 to 12:00.

Professor Fletcher

5c. APPLICATION OF COSTUME DESIGN. Practical training in the use and adaptation of different individuals and purposes, designs made in Textiles and Clothing 5b as well as designs taken from current fashion magazines. Modeling in paper and crinoline and making of one costume. Prerequisites, Textiles and Clothing 1 and 5a and 5b, or their equivalents. Spring quarter. Three credits.

M. W. F. 10:00 to 12:00.

Professor Moen

6. Advanced Dressmaking. The application to costume of line and color harmony. Pattern making and draping with materials. Construction of dresses in cotton, wool and silk materials, with special emphasis on the technic of dressmaking. Prerequisites, Clothing 1, 2, 5a, b, c. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 2:00 to 5:00.

Professor Moen

#### VETERINARY SCIENCE

PROFESSOR FREDERICK.

#### VOCATIONAL COURSE

a. Elementary veterinary science for vocational students. Fall quarter. Repeated Winter quarter. Four credits.

Lec. T. Th. S. 8:00; clinic W. 2:00 to 5:00 Fall quarter.

Lec. M. W. F. 10:00; clinic Th. 2:00 to 5:00 Winter quarter.

Professor Frederick

#### JUNIOR COLLEGE COURSES

1. Veterinary Elements. Introduction to anatomy and physiology and the common ailments of domestic animals; the most prevalent diseases, their distribution, causes, symptoms, course, diagnosis and treatment; observation and practice in the free weekly clinics. Fall or Winter quarter. Four credits.

Lec. T. Th. S. 8:00; clinic W. 2:00 to 5:00 Fall quarter.

Lec. M. W. F. 10:00; clinic Th. 2:00 to 5:00 Winter quarter.

Professor Frederick

2. Comparative Anatomy. Especially for students in agriculture and animal husbandry; also students wishing to follow veterinary science. This course is supplemented with practical work in dissection and illustrated by skeletons and models. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 11:00.

(Not given 1921-22.)

Professor Frederick

3. Obstetrics. Obstetrical anatomy, reproduction, hygiene of pregnant animals. Obstetric operations, accidents of parturition and diseases of the new-born. The college herd and the surrounding stock breeding community give ample opportunity for practical work. Winter and Spring quarters. Two credits each quarter.

T. S. 11:00.

Professor Frederick

4. Physiology. The vital functions of the different species of domestic animals and those of the human body are compared; the physical and chemical laws as related to physiology; the general properties of animal cells,—their origin, development and growth; special physiology of the various organs and tissues of the animal body. Given if 10 students register. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 9:00.

Professor Frederick

5. CLINICS. Free clinics at the hospital in which students

of veterinary science must assist. The numerous cases represent all diseases common to this locality and furnish the clinic with abundant material for observation and practice. Hours and credits to be arranged. Fall, Winter and Spring quarters.

Clinic W. Th. 2:00 to 5:00; Veterinary Hospital.

Professor Frederick

6. Principles of Horse Shoeing. The anatomy and physiology of the horse's foot; the form of the foot and the direction of the limb; variations in the light of the foot, styles of going, shoeing of normal and irregular feet; winter shoeing; correction of defects in gait and methods of shoeing hoofs defective in form or diseased. Winter quarter; repeated Spring quarter. Three credits.

T. Th. S. 9:00.

Professor Frederick

#### SENIOR COLLEGE COURSES.

7. Hygiene and Infectious Diseases. A continuation of Veterinary Science 1. A discussion of water and food supply, disinfection, care and management of animals and feeding of sick animals. The common infectious diseases prevalent here, methods which should be adopted in their control and eradication. Tests applied for diagnosis, vaccination and serum treatment of animals. Winter or Spring quarter. Four credits.

Clinics W. or Th. 2:00 to 5:00, Veterinary Hospital.

Sec. 1—T. Th. S. 8:00 Winter quarter. Sec 2.—M. W. F. 10:00 Spring quarter.

Professor Frederick

8. Anatomy and Physiology. A study of the form, structure and functions of the animal body. Attention is given to all domestic animals and students are required to locate and point out the parts related to the form, movement and utility of the animal. Fall and Winter quarters. Three credits each quarter.

Lec. T. S. 10:00; clinic W. or Th. 2:00 to 5:00; Veterinary Hospital.

Professor Frederick

20. Sanitary Inspection. Inspection of slaughter houses, dairies, packing houses, butcher shops, etc., and means of detection of communicable diseases and spoilage in meat products. Prerequisite Bacteriology 2. One quarter. Three credits.

Hours to be arranged.

Professor Frederick

#### ZOOLOGY

PROFESSOR HAWLEY
ASSISTANT PROFESSOR PACK.

See Entomology for related work.

### JUNIOR COLLEGE COURSES.

1. ELEMENTARY GENERAL ZOOLOGY. A study of morphology, physiology, differentiation, adaptation and other zoological principles. A brief survey of the animal kingdom is undertaken so that the student will be able to identify the general groups. Intended for those who have not studied zoology before and who desire only a general view of the subject. Students in Home Economics, Mechanic Arts, Agricultural Engineering and Commerce may take the course, but those in General Science and Agriculture and all students desiring a more comprehensive study should take Zoology 3. Sec. 1, Fall and Winter quarters; sec. 2, Winter and Spring quarters. Three credits each quarter.

Sec. 1. Lec. T. Th. 8:00; lab. T. or F. 2:00 to 5:00. Sec. 2. Lec. W. F. 10:00; lab. Th. or F. 2:00 to 5:00.

3. General Zoology. A systematic study of the animal kingdom, its general classification and the relation of the various groups of animals to each other. Emphasis is placed upon structural characteristics, development, function and relation of organs in the different groups. Winter and Spring quarters. Five credits each quarter.

Lec. T. Th. S. 9:00; lab. M. W. 2:00 to 5:00.

4. Economic Zoology. Study of the feeding and breeding habits of intermountain vertebrates; their economic relation to agricultural interests. Methods for the control of injurious vertebrates and for the encouragement of beneficial ones are considered. Spring quarter. Four credits.

Lec. M. W. F. 9:00; lab. T. 2:00 to 5:00.

5. Parasitology. (Rural Sanitation 2.) The classification, morphology and life history of animal parasites. The disease-producing protozoans, flukes, tapeworms and roundworms receive special study. Arthropods as external parasites and carriers of pathogenic organisms receive attention. Fall quarter. Four credits.

Lec. T. Th. S. 9:00; lab. M. 2:00 to 5:00.

#### SENIOR COLLEGE COURSES.

- 6. Advanced Zoology. The classification, morphology and comparative anatomy of the vertebrates. Prerequisite, Zoology 1 or 3. Fall and Winter quarters. Five credits each quarter. Hours to be arranged.
- 7. Genetics. This course considers the biological principles of life and the inheritance of characters. A study of the germ cells with reference to heredity. The questions of variation, mutation, the inheritance of acquired characters, pure lines, Mendelism, sex determination and genetic principles generally are the main subjects of discussion. Prerequisite, Zoology 3 or equivalent. Winter quarter. Four credits.

M. W. F. S. 11:00.

8. Eugenics. The principles of genetics as applied to the human race. Attention is given the historical development of and needs for eugenics, the inheritance of physical, mental and moral traits; human crosses, consanguineous marriages, eugenic pro-

cedure and other principles which influence the innate qualities of human beings. Prerequisite, Zoology 7. Spring quarter. Four credits.

M. W. F. S. 11:00.

9. HISTORY AND EMBRYOLOGY. A general course of histology and embryology with special reference to man. Fall quarter, lectures and laboratory work on the principles of technic and a study of epithelial tissue. Winter quarter completes work in histology and continues with a treatment of the germ cells, their maturation and fertilization. Spring quarter, comparative study of the embryological development of amphioxus, frog and man. Prerequisite, General Zoology. Fall, Winter and Spring quarters. Four credits each quarter.

Hours to be arranged.

10. Research. The student who wishes to engage in some line of original research and is qualified to do so may elect and study some topic from eugenics, ecology, morphology or other zoological subjects. Thesis. Time and credits to be arranged.

# Twenty-Seventh Annual Commencement

#### AGRICULTURE

#### Agronomy

Avedian, Giragos
Barney, Archie Fay
Booth, John Albert
Christiansen, El Ray La Var
Croft, Alfred Russell
Crookston, Laurn Edgar
Kearl, Chase
Macbeth, Glenn Egerton
Memmott, Cleon Lavar
Morgan, Norman Frederick
Reed, Joseph
Tuttle, Ray L.

#### Animal Husbandry

Barlow, Fielding Burton Bateman, James Robert Cannon, Douglas Quentin Morrell, Thomas Heber Poulter, William Irvin Price, Ardath Layne Robinson, Eugene William Tippetts, John Roy

#### Botany

Hansen, Clarence James

#### AGRICULTURAL ENGINEERING AND MECHANIC ARTS

Andrus, Lenard Milo Bowen, Leslie Christensen, Leon Peter Coffman, William Elmo Wilson, Vanez Theurer

Mechanic Arts

Russell, George Elmo

# COMMERCE AND BUSINESS ADMINISTRATION

Clark, Horald Gower Garrett, Leon Demoin Hendricks, John Allan Howell, Joseph Devonald

Jones, Hyrum Pidding Lindsay, William Parry, John Waldo Sauls, Keifer Branham

#### GENERAL SCIENCE

Budge, Alfred Hodge Budge, Scott Merrill Ewing, Scott Preston Gubler, Helen Anna Merrill, Edna Ensign Nebeker, Acel Hulme Nelson, Peter Olsen, Leander Peterson, Maurine Merredith Thomas, Kathryn

#### HOME ECONOMICS

Barker, Lena Moen, Johanna
Brossard, Laura Parkinson CowleyRich, Irene
Eberle, Lillie Louise Stookey, Bernice Jemima
Foutz, Nadine Wells, Geneva
Greaves, Ethelyn Oliver

### Master of Science in Agriculture

Lund, Yeppa

#### Doctor of Laws

Hines, Frank Thomas

## Honors, 1920-21

Scholarship: The following students have been selected as deserving special distinction for high achievement in scholarship. They have accordingly, received either a "Scholarship 'A'" or "Honorable Mention:"

### Scholarship "A"s

Walter Edward Atwood Loila D. Merrill Jackson Price Emery Ranker Miriam Jackson William H. Bell William H. Willeson

### Honorable Mention

Wesley B. Brummett Peter Rich Johnston Maurice B. Linford Ezra C. Thompson Florence Walker Daniel H. Nelson

### Debating

### Inter-Collegiate Debating:

W. J. Merrill King Hendricks LeRoy Funk S. H. Judd Carl Frischknecht Emery Ranker Sidney Cornwall Douglas Smith

#### Oratory:

The Hendricks Medal Won By; King Hendricks.

The Casto Medal Won By: Victor Linblad

The Sons of the American Revolution Medal Won By:

Morris Christensen

Scholarships: The following students were awarded the Johansen scholarships for 1920-1921: Delmar Tingey Bramwell Peck

Moroni Smith

#### Student Body Officers:

Morris Christensen	President
Pearl Oberhansly	Vice-President
Blanche Mendenhall	Secretary

#### "Student Life" Staff:

Wilford D. Porter Ray L. Alston	Managing	Editor Editor
King Hendricks		. Editor
Francis Hayes	Business	Manager
Homer Fornoff	Business	Manager
Tromer roman management		

#### "Buzzer" Staff:

Charles Hart		Editor
A. B. Smith	Business	Manager

The Lois Hayball Medal, given for the best student in home economics, was won by Oreta Merrill.

The Men's Shop Medals, given to the best inter-class debaters,

were won by Bramwell Peck and Lawrence Jones.

The William Peterson Medal, given to the author of the best paper on some selected scientific subject, was won by H. E. Flanders. The Howell Medal, given to the best inter-collegiate debater, was won by Wilford J. Merrill.

The Vernon Medal, given to the writer of the best short story, was won by Mrs. Rose Thompson.

## List of Students 1920-1921

In the following list "a" stands for agriculture; "aema" for agricultural engineering and mechanic arts; "ho" for home economics; "c" for commerce; "g" for general science; "ss" for summer school; "G" for Graduate; "S" for Senior; "J" for Junior; "So" for Sophomore; "F" for Freshman; "V" for Vocational; "Fed" for Federal; "sp" for Special.

Abbott, Mrs. Clara ho-Sp St. George
Abbott, Israel g-So-ss-Fed St. George
Adams, Claude H. c-So Tremonton
Adams Clay O. c-F
Adams, Clay Q. c-F Layton Adams, Geo. T. c-F Logan
Adams Verena ss I noran
Adams, Verena ss Logan Adamson, David D. a-V-Fed Pleasant Grove
Auamson, Herbert G. aema-F Richmond
Affleck, Modena ss
Aitken, Adren g-S-Fed Preston, Idaho
Aldous, Harold a-V Huntsville
Aldous, Horace aema-V Huntsville
Allen, Albert B. a-S
Allen, Chas. E. a-V-Fed Orderville
Allen, Hazel L. ho-Sp
Allen, Lucile B. ho-So
Alliston, Chas. R. aema-V-Fed Benson
Allred, Leigh R. aema-V-Fed Deseret
Allred, Thatcher a-Sp
Allred, Theras O. ss Logan
Alston, Ray L. a-S-ss-Fed Salt Lake City
Alvord, Harold S. c-JLogan
Alvord, Lewis G. c-V Logan
Amuseen Fleonora ho-Sp Logan
Amussen, Eleonora ho-Sp Logan Amussen, Mrs. Odetta S. ho-Sp Logan
Anderson, Alfred W. g-F Salt Lake City
Anderson, Byron a-F
Anderson, Cervantes J. a-V
Anderson Clifford L. c-V-Fed Tremonton
Anderson, Duwayne L. aema-F Pleasant Grove
Anderson, Letha L. ss Lewiston
Anderson, Ias. A. aema-SoSpanish Fork
Anderson, Jos. W. a-V-Fed Lyman, Wyo.
Anderson, Kai H. g-F Burmester
Anderson, Marian ss Magna

The second secon	
Anderson, Mary ho-Sp	Logan
Anderson, Rachel c-Sp	Grantsville
Anderson Stanley R. aema-S	Salt Lake City
Anderson, Stanley R. aema-S Anderson, Sterling c-F	Grantsville
Anderson Wolde M a Co	Logan
Anderson, Waldo M. c-So	Togge
Anderson, Woodruii H. a-So	LUgan
Andreasen, Clara ss	Hyrum
Andrews, Anna c-V	Logan
Andrus, Laura ss	Spanish Fork
Andrus, Lenard M. aema-G-Fed	Spanish Fork
Andrus Lester o-F-Fed	Spanish Fork
Andrus, Lucy ss	Snanish Fork
America Albert some V	Hooper
Arave, Ameri aema-v	Challer Ideho
Arave, Vernal L. a-V-Fed Argyle, Mark aema-Sp	Shelley, Idano
Argyle, Mark aema-Sp	Spanish Fork
Arnold, Melvin S. a-S	Salt Lake City
Arnold, Melvin S. a-S Arnold, Ralph J. a-V-Fed	Germantown, Pa.
Arnspiger, Chester E. a-V-Fed	Telluride, Colo.
Arnspiger, Chester E. a-V-Fed Arthur, Walter E. aema-V-ss-Fed	Logan
Ashman, Harold E a-V-Fed	Salt Lake City
Ashman, Mrs. Sarah H. ho-V	Salt Lake City
Atkinson, Edna Mae c-V	T oron
Atkinson, Edna Mae C-V	C-1 T 1 C'
Atwood, Walter E. a-F-Fed	Sait Lake City
Atwood, Walter E. a-F-Fed Axline, William C a-V-ss-Fed	. Riverton, Wyo.
Ayers, Frank J. aema-V-Fed Bachman, Blaine c-So	Provo
Bachman, Blaine c-So	Eden
Bachman, Comfort c-I	Eden
Backman Frank A aema-F	Santaguin
Backman, Geo. A. a-J Bagley, Almina L. g-F	Santaquin
Declar Almine I a F	Orden
Bailey, Reed W. aema-So-ss	Logan
Dailey, Reed W. aema-50-58	A-Lon Idaha
Bailey, Thos. K. c-F	Arbon, Idano
Bailey, Thos. K. c-F Baird, Ralph aema-V	Lewiston
Baird, Willis E. aema-V	Preston, Idaho
Baird, Willis E. aema-V Baker, Leroy A. aema-F Ball, Otto aema V-Fed	Tooele
Ball. Otto aema V-Fed	Atchison, Kansas
Rallantyne Bessie ss	Richmond
Ballif, Louis S c-Sp Ballinger, Pearson A. g-F Ballinger, Zelta ss	Preston Idaho
Dalling Decree A or F	Orden
Dallinger, Fearson A. g-r	Ondon
Ballinger, Zelta ss	Ogden
Bankhead, Heber N. g-F	Logan
Bankhead, Heber N. g-F Barber, Adaliene ss	Logan
Barbar (-00 P 3-5-cc	Logan
Barber, Ruth g-J	Logan
Barber, Ruth g-J	Logan
Rarber Solon R G-17	I .00211
Barber, W. Wendell c-So	Logan
Barker, J. Roy aema-S	Collbran Colo
Barker, Mignon ho-S	Salt Lake City
Barnes, Ethelyn ss	Monar
Barnes, Ethelyn SS	wiorgan

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Barney, Archie F. ss-Fed Logan	
Barrett, Eva M. g-So Logan	
Barrett, I. Milton g-F	ĸ
Barrett, J. Milton g-F Logan Barrows, Mrs. Effie S. ss Logan	
Barson, Laree ho-V	
Barson, Laree no-v	к
Barson, Peter E. a-V Clarkston	В
Bastow, Ivan S. a-V River Heights	ш
Bastow, J. Garfield aema-S River Heights	3
Bateman, Alfred H. a-I Paris, Idaho	
Bateman, Geo. M. g-S Paris, Idaho	
Bates, Roy R. a-V Wanship	
Bates, Roy R. a-v	Ш
Batt, Mrs. Jeanette T g-Sp Logan	щ
Batt, Chas. G. g-Sp Logan	1
Batt, Chas. G. g-Sp Logan Beach, Floyd M. a-So-ss-Fed Bloomingdale, Mich.	.
Beane. Wayne C. a-V-Fed Salt Lake City	7
Becraft, Mrs. Ireta H. ss	1
Behring, Chas. K. aema-V Salt Lake City	,
Dell'ing, Class. R. della-V	
Bell, Frederick a-V-Fed Elsinore	
Bell, Olive ho-V-ss Logar	
Bell, W. Harold c-So Logar	1
Belnap, R. Stanton c-F Ogder	1
Bennion, Deane ho-Sp Verna	1
Bennion, Elma L. g-So Logar	_
Denirion, Elina L. g-50	
Bennion, Erma L. g-So Logat	.1
Bennion, Lavon g-G Logar Bennion, Leland c-V Verna	1
Bennion, Leland c-V Verna	.1
Bennion, Leo a-V Salt Lake City Bennion, Lora g-G Logar	y
Rennion, Lora g-G	n
Bennion, M. Lynn a-F Salt Lake City	v İ
Penson Fara T come E Whitney Idah	0
Benson, Ezra T. aema-F Whitney, Idah Benson, Frank A aema-V Logar	- 1
Denson, Frank A actually	
Benson, Joseph aema-V Whitney, Idaho Benson, Margaret ho-F Whitney, Idaho	O
Benson, Margaret ho-F Whitney, Idaho	0
Bentley, Eva ss	n
Bentley, Vivian a-F Colonia, Juarez, Chih. Mexico	0
Remar Fred nema-V North Logar	n
Bergeson, Mrs. Asia H. g-Sp Logar Berntson, Milton R. c-F Logar Berrett, Donald aema-V North Ogder	n
Pentagon, Milton D. c.F. I orga	11
Definition, William V. North Order	
Berrett, Donald aema-v	11
Beutler, Walter aema-V North Loga: Bickmore, C. Irving c-F Loga:	n
Bickmore, C. Irving c-F Logar	n
Bingham, David M. aema-V Huntsvill	e
Bingham, Fife aema-V Blackfoot, Idah	0
Bingham Hazel ho-F	n
Bingham, David M. aema-V Huntsvill Bingham, Fife aema-V Blackfoot, Idah Bingham, Hazel ho-F Ogde Bingham, Jas. W. a-F Cedaredge, Cole	2
Binkley, Ralph V. a-V-Fed Grand Junction, Colo	
Binkley Kainn V. a-V-reil Utaliu Tuliciloli, Colo	J.
Division of the Average of the Avera	TI
Bird, Cyril aema-V-Fed Mendo	
Bird, Cyril aema-V-Fed Mendo Bird, Louise ss Springvill	le
Bird, Cyril aema-V-Fed Mendo Bird, Louise ss Springvill Bjorkman, Chas. P. aema-So Hebe	le
Bird, Cyril aema-V-Fed Mendo Bird, Louise ss Springvill Bjorkman, Chas. P. aema-So Hebe	le
Bird, Cyril aema-V-Fed Mendo Bird, Louise ss Springvill Bjorkman, Chas. P. aema-So Hebe Bjorkman, S. Robert a-So Hebe	ıe
Bird, Cyril aema-V-Fed Mendo Bird, Louise ss Springvill Bjorkman, Chas. P. aema-So Hebe Bjorkman, S. Robert a-So Hebe Black, Thomas a-V-Fed Coalvill Blackburn, J. Earl a-Sp Delt	ıe

Blackham, John B. c-F Blanche, Geo. T. aema-V	Moroni
Blanche, Geo. T. aema-V	Ogden
Blomquist, Luella c-F	Logan
Bohman, Chas, Alfred aema-F	Peterson
Bohman, Chas. Alfred aema-F Boley, Glenn c-V	American Fork
Bonner, Russell M. a-V-Fed	Weatherford Texas
Boothe, John Neff g-Sp	Weston Idaho
Boothe, Norris c-V	Honerwille
Bowen, Gladys, ho-So	Honorwille
Bowen, Leslie aema-G	Casaish Earle
Dowen, Lesne aema-G	Spanish Fork
Bowles, Carl J. aema-Sp	Nepm
Bowman, Will W. a-So Boyd, Reece L. aema-V Bradford, Lola R. ho-So	Ogden
Boyd, Reece L. aema-V	Logan
Bradford, Lola R. ho-So	Spanish Fork
Brady, John c-F	Logan
Braithwaite, F. C. ss	Logan
Brazzale, Frank aema-V-Fed ss	Italy
Brewer, Reason A. aema-F-Fed Brimhall, Ernest a-V	Logan
Brimhall, Ernest a-V	Fruitland, New Mex.
Brimley, Wilford C. ss	Logan
Brower, Bertha ho-V Brown, Bessie ss	Freedom, Wvo.
Brown, Bessie ss	Hyrum
Brown, Clair aema-V	Ogden
Brown, Mrs. Effie ho-Sp-ss	Logan
Brown, Gladys g-F	Logan
Brown Henry sems-V	Occien
Brown, Henry aema-V Brown, Jennie ss	Hyrum
Brown, Merle W. aema-V-ss-Fed	Towns
Brummett, Wesley B. a-V-ss-Fed	Duch come
Bryan, Alexander J. a-So	Too.1.
Dryali, Alexander J. a-50	A Toole
Buckwalter, Mildred ho-So-ss	American Fork
Budge, Blanche I ho-F	River Heights
Budge, Margaret A. ho-F-ss	River Heights
Budge, W. Ivaloo ho-F	Logan
Bullen, H. Keith aema-So	Logan
Bunker, Ralph C. a-F-Fed	Delta
Burgin, C. Henry aema-V	Lehi
Burgin, Harold O. aema-V-Fed Burgon, Veva g-Sp-ss Burgoyne, Ivan E. a-V	Santa Barbara, Calif.
Burgon, Veva g-Sp-ss	Logan
Burgoyne, Ivan E. a-V	Logan
Burgoyne, John M. aema-So	Montpeleir, Idaho
Burgoyne, Richard M. a-V	Montpelier, Idaho
Burke, Chas, W. aema-Sp.	Benche, Idaho
Burnham, C. Alvira ho-V	Brigham
Burnham, Virgina c-V	Logan
Burningham, Iosephine ho-F	Bountiful
Burnside, James C. aema-V-Fed	Mt. Pleasant
Burnside, James C. aema-V-Fed	Mt Pleasant
Bush A Harold o-F	Malad Idaho
Rushman Silae A es	Snowflake Arizona
Rushman, Silas A. ss Butcher, Oliver D. ss-Fed	Salt I ake City
Butler, Helen U. ss	Luga Oldahama
Build, Helell U. SS	Trugo, Okianoma

Butler, Ray a-So	Payson
Buttars, Lucy ho-V	Clarkston
Buttars, Sadie c-V	Clarkston
Buttars, Thos. J. g-V	Clarkston
Caikowski, Stanley a-V-Fed	Denver, Colo.
Caldwell James O aema-V-Fed	Salt Lake City
Caldwell, James Ö. aema-V-Fed Call, Cyril A. aema-F	Logan
Call Lila ha-F	Righy Idaho
Call, Lila ho-F Call, Orvis A. a-V-ss-Fed	Ooden
Cameron, Robert a-F	Salt Lake City
Campbell A Clem g-T	Logan
Campbell, A. Clem g-J	Las Animas Colo.
Campbell Curtis aema-V	Ogden
Campbell, Curtis aema-V Campora, Domenico g-V	Trenton
Cannell, Esther c-V	Smithfield
Cannon, Alan M. a-Sp	Salt Lake City
Cannon, Chas. W. a-F	Salt Lake City
Cannon, Douglas g-J	St. George
Card, Steling R. aema-V	Logan
Cardon, Nellie ss	Logan
Cardon, Rula g-F	Logan
Carleon Flya G es	Logan
Carlson, John W. a-So	Logan
Carleon Victor H aema-V	Logan
Carman Garold C c-F	Ugden
C	Wanti
Carpenter Ruth ce	Preston, Idaho
Carpenter, Ruth ss	Orderville
Carroll Pulon I 2-So	Orderville
Carter, Chas. H. aema-So	Vernal
Carter, Lawrence c-V	Vernal
Coco Mrs Helena R ss	Ogden
Case Jean Dies	Ugden
Cash Carroll aema-V	Smithfield
Chambarlin Amanda of E	Oggen
Chambarlain Karl S a-H-Hed-cc	Provo
Chambers C Arthur 2-F	Ugaen
Chambers, Wm. J. aema-V-ss	. Fall Creek, Wis.
Chandler Harold M a-F	Salt Lake City
Classification Transcer come V	. Ogden
Channel Emery sems-Valled	t. Enterprise, Lexas
Cheney, Walton A. c-V	Logan
Charmy Alfred K c-F	Mt. Pleasant
Cherry, Louise c-F	Mt. Pleasant
Charry Winona K ho-So	Mt. Fleasant
Child Amtoll a V	Hooper
Children Torr as	Leni
Chipman Irana ho-So	American Fork
Chiaman Monlo S ho. S-cc	
Children and the control of the cont	American rolk
Choules Geo. c-Sp	American rolk
Choules, Geo. c-Sp	American rolk

Christensen, Claud aema-V Moroni
Charletoneon Constance Caso
Christensen, Emille, c-F-ss-FedBrigham
Christensen, Emille, c-F-ss-Fed.  Christensen, Erval a-So  Provo
Ct the Table Manual of C
Christensen, Jos. a-V-Fed Salt Lake City
Christiansen Ios R a-So Fountain Green
Christensen Leona F ho-V Central, Idaho
Christensen, Jos. a-V-Fed Salt Lake City Christiansen, Jos. R. a-So Fountain Green Christensen, Leona E. ho-V Central, Idaho Christensen, Melvin c-V Tremonton Clarkston
Christensen, Melvin c-V Tremomont Christensen, Ruth ss Clarkston Christensen, Thelma ss Monroe
Christensen Thelma ss Monroe
Christensen, Wm. E. a-V
Clarer Richard E sema-V-ss-Fed Lamar, Colo.
C1-1- Author D o E
Clark, Esther g-F  Clark, Josephine ss  Farmington
Clark, Estilet g-1
Clark, Myrai G. a-v
Clark, Myral G. a-V Colark, Ray a-F Colark, S. Cyril c-J Coden
Clark, Thos L. aema-V Ogden
Claman I Harold on Providence
Clawson, J. Halold Ss
Clawson, J. Haroid SS  Clawson, Julia ss  Preston, Idaho Clawson, Leslie T. c-F  Solt Lobe City
Clawson, Lesile 1. C-1 Salt Lake City
Clayton, Merlin A. aema-V Salt Lake City Clegg, Martello a-Sp Heber
Clare Bus I o So
Clegg, Rue L. a-So
Clergy, Will. D. aelia-V
Clements, Chas. J. a-V-Fed Ogden Cleveland, Ellsworth aema-V St. Charles, Idaho
Clifford, Percy a-V-Fed
Cl. 1- C. Darriago S. Springville
Cl. 1. II C. springville
Cityde, Harry S. aema-50
Clifford, Percy a-V-Fed Ogden Clyde, G. Dewey aema-S Springville Clyde, Harry S. aema-So Springville Colby, Estella ss Mendon Cole, Truman J. ss Logan Cole, Wilford C. a-F Nephi Collar Harry B. Tremotion
Cole, I ruman J. SS
Cole, Willord C. a-F
Coles, Herschal H. aema-F Tremonton Collins, L. Richard c-V Logan
Collins, L. Kichard C-V Eranklin Idaho
Comish, Della B. ho-F Franklin, Idaho Comish, Reata ss Franklin, Idaho
Comish, Reata Ss I dankini, Idano
Condie, Thos. L. c-V Logan Condie, Vivian ss Preston, Idaho
Condie, Vivian SS
Condit, S. Amanda g-S Logan Connors, Carl W. aema-V-ss-Fed Denver, Colo.
Conroy, Edward E. a-G
Conroy, Maurice R. c-So Ogden
Conway, Herman M. a-So-ss-Fed Seymour, Ind.
Conway, Herman M. a-50-ss-red Seymour, ind.
Conway, Mrs. Margaret ho-Sp Logan Cook, Francis H. a-V Willard
Costs Look to So
Cook, Francis H. a-V Cook, Leah ho-So Cooley, LaVell g-V Coombs, Nellie g-Sp Fielding
Coords Natio a Co
Coolins, Neine g-sp Freiding

a water was	
Coon, Wilfred, a-V-Fed	
Coray, Clarence A. aema-So Ogden	
Cordingley, Myron L. aema-F.  Cordingley, Frank C. aema-F.  Marysvale, Idaho  Cordinate Frank C. aema-F.	
Cordingley Myron I same-F	
Conding Front C. acma-r	
Cordner, Frank C. aema-V-Fed Provo, Utah Cornell, Mary E. ss Fruita, Colo.	
Cornell, Mary E. ss Fruita, Colo.	
Cornwall, Sidney a-F	
Cotter, Ralph U. ssLehi	
Countryman, Ova E. aema-SoBingham Canyon	
Cowan, Glenn F. a-F. FedPayson	
Cowall, Oleman 1: a-1: Fed	
Cowan, Martha ho-So Payson	
Cowley, Elna g-F-ss Logan	
Cowley, Samuel P. c- V. Logan	
Cranney, Kimball J. c-F Logan Crawford, Darrell c-V Logan	
Crawford Darrell c-V	
Crockett, Mrs. Evelyn G. ho-S Logan	
Crockett, Mrs. Everyn G. 10-5	
Crockwell, Stuart H. aema-F-ss-Fed Salt Lake City	
Croft, Gordon Y. g-So Ogden	
Croft, John a-F Ogden	
Crook, Laurence M. aema-So-Fed-ss	
Crook, Leola M. ho-V	
Crook, Reno G. a-S	
Crook, Reno G. a-5	
Crook, Wm. C. a-G Logan	
Crookston, Edna ho-J-ss North Logan	
Crookston, Jesse L. aema-V Hyrum	
Crosgrove, Chas. L. a-Sp Draper	
Crosland, Lawrence aema-V-Fed Holden	
Crosser Clyde C 2-V-ss-Fed Thermopolis Wyo	
Crosser, Clyde C. a-V-ss-Fed Thermopolis, Wyo. Crowther, Edna ho-Sp Malad, Idaho	
Crowtner, Edna no-Sp	1
Croxford, Lloyd a-F Murray	
Croxford, Lloyd a-F Murray Cruser, Irene ho-V Monticello	
Curry, Allen L. a-V Heber	
Cutler, Eugene M. aema-V Kilgora, Idaho	,
Cutler, Retta L. ho-F Lehi	
Dahle, Gilbert L c-V Logan	
Dahle, Verna ho-F Logan	
Daines, Hazen g-F-ss Hyde Park	
Daines, Luella P. ss Logan	
Daines, Lydia J. ss Hyde Park	ī
Daines, Sadie R. g-Sp Logan	1
Daley David F c-F-Fed Prove	)
Dalton, Hiram E. aema-F-ss-Fed Visalia, Cal. Dance. Theodore c-V Blackfoot, Idaho	
Dance Theodore caV Blackfoot Idaho	,
Datwyler, Jos. c-V-Fed Logan	,
Davenport. Ralph aema-V-Fed	
Davemport, Kaipii aema-v-red Butte, Mont.	
Davidson, Mervyn aema-V-ss-Fed Logar	1
Davidson, S. Leona ho-F Logar	1
Davis, Esther ho-V	0
Davis, Margaret R. ho-Sp Willard	1
Davis, Oliver J. a-V Weston, Idaho	0
Davis, Owen c-V	0
Davis, Owell C-V Gwellord, Idane	

Dawson, Ray c-F Layton Day, Maeser E. aema-V Oakley, Idaho
Day, Maeser E. aema-V Oakley, Idaho
Delano, Arlie A. a-V-FedStrawberry Pt., Iowa
Denning, W. Vernal c-Sp Pocatello, Idaho
Denton, Rufus M. a-V-Fed
Denton, Rurus M. a-v-red
Despain, Robert E. a-V-Fed Lovell, Wyo.
Dewey, H. Asa ss Logan Dieckman, Adolph R. a-V-ss-Fed Rupert, Idaho
Dieckman, Adolph R. a-V-ss-Fed Rupert, Idaho
Diehl Frastus I a-So-ss-Fed Filer Idaho
Diehl, Clair M. ss
Diehl, Clair M. ss
Donelson, Phenoy C. ss-Fed Salt Lake City
Dorius, Paul F. g-F Salt Lake City
Donus, Faui F. g-F
Douglas, Ernest C. a-V-Fed Zillah, Wash.
Draney, Jos. E. aema-V-ss-Fed Ogden
Drew, Katherine ss
Dudley. Park aema-V Logan
Duggan, Grant N. a-V-Fed Denver, Colo.  Dumke, Hobart R. a-V-ss-Fed Farmington
Dumke Hobart R a-V-ss-Fed Farmington
Dunford Sterling F 20m2-V
Dunford, Sterling E. aema-V Logan Dunkley, Milfred ss Franklin, Idaho
Durkiey, Milited Ss
Dustman, Ios. E. c-V Deweyville Dustman, Rose V. ho-V Deweyville
Dustman, Rose V. ho-V Deweyville
Eagar, James H. a-V-ss-FedNephi
Eagar, Mrs. Mattie C. ho-F Nephi
Eames, Leona c-So Logan
Earl, Clara c-V Logan
Earl, Ernest G. aema-V Logan
Factorian Farl H. aema-F. Evanston Wyo
Eastman, Earl H. aema-F Evanston, Wyo. Eastman, Eric E. a-G Los Angeles, Cal.
Eccles, Nora g-F Logan Edmunds, Charlotte ss Logan
Edmunds, Charlotte ss Logan
Edmunds, Ruby ho-SSalt Lake City
Edwards, Verd a-V Righy, Idaho
Eghert, Anna g-S Lewiston
Egbert, Del Mar a-F Logan Egbert, Herchel S. a-V Logan
Egbert, Herchel S. a-V Logan
Eggen, Silas T. a-V-ss-Fed Bennmore
Eliason, Jos. aema-V
Ellis, Reuben A. a-Sp
Eule, Render A. C.
Filison, Edward c-F Layton
Fllsworth, Von T. aema-F-Fed Pocatello, Idaho
Elison, Jos. aema-V Bancroft, Idaho
Elison, Jos. aema-V Bancroft, Idaho Elsmore, Aldia ho-F Silver City
Engemann, Marguerite ss Eureka
England. Eva c-F Logan
Ensign Geneva g-So
Erickson, Albert aema-F
Erickson, Albert aema-F North Logan Erickson, Elgin W. a-So Sandy
Erickson, Mabel ss Logan
Erickson, Viola M. c-V
Erickson, viola M. C-v Logan

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Ernstrom, Mary ss Ogden Eschler, Alvin K. aema-V Logan
Eschler, Alvin K, aema-V Logan
Eschler, Alvin R. aema-V  Esplin, Evelyn ho-S  Etter, John J. aema-F-ss-Fed  Albuquerque, N. M. Nochi
Etter John I gema-F-ss-Fed Albuquerque, N. M.
Evans, Dora g-J
Evans, Ford d. a. come V. Raymond Idaho
Evans, George C. aema-V-Fed
Evans, George C. aema-v-red
Evans, Gladwin aema-VLogan
Evans, Harold aema-V Logan
Evans, Hilton B. a-S Salt Lake City
Evans, James W. J. a-So Malad, Idaho Evans, Leone ho-F-ss Salt Lake City
Evans, Leone ho-F-ss
Falck, Louis c-So Ogden Falslev, Marinus J. a-V-Fed.  Ogden Benson
Falsley Marinus I. a-V-FedBenson
Farrell Innet F c-V
Fawson Lyman aema-F
Fawson, Lyman, aema-F. Grantsville Feil, Fred C. c-F
Felt, Jos. E. ss
Felt, Mrs. Olive ss
Fenley, Pickney a-V-Fed El Paso, Texas
Ferguson, Bruce D. aema-So Spanish Fork
Ferguson, Bruce D. aema-50
Fergusin, Hollis D. a-V-Fed
Fife, Milton J. a-FLogan
Fife, Milton J. a-F Logan Fifield, Jesse H. a-V-ss-Fed Weston, Idaho Finlayson, Erma ss Logan Finlinson, Leda ho-F Leamington
Finlayson, Erma ss Logan
Finlinson, Leda ho-F Learnington
High Lynwood L. aema-v-ss-red Logan
Fish. Murland W. g-So-ss Logan
Fish, Murland W. g-So-ss Logan Flanders, H. Edward g-S-ss. Logan
Fletcher, S. Ross aema-V Thatcher, Arizona Fogg, Lucile ho-F St. Anthony, Idaho.
Forg Lucile ho-F St. Anthony, Idaho.
Foor, T. Vernon c-V. St. Anthony, Idaho
Fogg, T. Vernon c-V St. Anthony, Idaho Folkman, Isabel c-V Logan
Forbes, Clarence H. aema-G Ogden
Fornoff, Homer aema-Sp Ogden
Forsgren, Hazel ho-SoBrigham
Forsgren, Hazel no-50
Forsgren, J. Clifford a-F Preston, Idaho
Fowler, Mrs. Rachel ss Huntsville
Fowles, Jos. D. aema-F-Fed Ogden Fox, Willis H. aema-V-Fed Denver, Colo.
Fox, Willis H. aema-V-Fed Denver, Colo.
Francis, Marjorie A. g-V Logan
Franson, Pearl E. ss
Frawley, E. Geo. aema-V Pocatello, Idaho
Frazer, Flward G. c-V-ss-Fed Weldona, Colo.
Frazer, Faward G. c-V-ss-Fed Weldona, Colo. Frazier, Fay M. aema-V-Fed Oakley
Frederick, Elfriede g-So-ss Logan Frederickson, Dewey J. a-V Malad, Idaho
Frederickson, Dewey J. a-V Malad, Idaho
Frederickson, Eugene aema-V Weston, Idaho
Frederickson, Eugene aema-V Weston, Idaho Frederickson, Geo. W. aema-V Weston, Idaho
Freestone Geo. A. aema-V-Fed Oakley Idaho
Frischknecht, Carl a-So Manti
Prischancent, Carr a 50

Tit. Pata Idaha
Fronger, Sybil g-SIdaho Falls, Idaho
Fry, Verle N. aema-F
Tulming I conard sema-V
Til. Dans ho C
Townson of Richmond
T 1. Claudia ha F
TO C C RICHIDIU
Gadd, W. Earl g-F Gardner, Alphonzo D. aema-V Gardner, Leo V. a-V Lehi
Gardier, Top V 2-V Sandy
Gardner, Leroi B. a-30 Lehi Gardner, Reid H. c-Sp Murray Gardner, Vernal D. c-J Reyburg Idaho
Gardner, Reid H. C-Sp Murray
Gardner, Vernal D. Col. Rexburg, Idaho
Garner, Ray D. a-v-Fed Nephi
Garrett, J. Lawrence g-F Wellsville
Garrett, Wm. B. C-V Delta, Colo.
Garton, Percy F. a-V-Fed-ss Preston Idaho
Gardner, Vernal D. c-J Murray Garner, Ray D. a-V-Fed Rexburg, Idaho Garrett, J. Lawrence g-F Wellsville Garrett, Wm. B. c-V Delta, Colo. Garton, Percy F. a-V-Fed-ss Preston, Idaho Geddes. Elva ss Worland, Wyo. Geddes, Martha g-F Worland, Wyo. Logan
Geddes, Martha g-F
Geddes, Martha g-F Logan Geddes, Robert W. aema-V Salt Jake City
Geddes, Robert W. aema-V George, Harvey W. c-V-Fed Gessel, Carl aema-V Logan Logan Logan
Gessel, Carl aema-V
Gessel, Carl aema-V Logan Gilgen, Robert aema-V Logan Gillespie, Frank A aema-V-Fed-ss Logan Logan
Gillespie, Frank A aema-V-Fed-ss Indiana
Gillespie, Frank A aema-V-Fed-ss Logan Glesing, Harry E. aema-V-Fed Brigham
Glesing, Harry E. aema-V-Fed Brigham Glover, Maud g-F Logan Goodsell, Chas. A. aema-V Smithfield
Goodsell Chas. A. aema-V
Goodsell, Chas. A. aema-V Smithfield Gordon, Edith g-F Milford
Gordon, Edith g-F Milford Gospill, Howard W. a-So Tooele
Gospill, Howard W. a-So Tooele Gowans, Max L. a-F Honeyville
Gowans, Max L. a-F Honeyville Grant, Waldo aema-V Logan  Company Compa
Grant, Waldo aema-V Logan Greaves, Mrs. Ethelyn O. ho-G-ss Logan Logan
Greaves, Mrs. Ethelyn O. ho-G-ss Logan Green, Chloe c-V Wellsville
Green, Chloe c-V Wellsville Green, Harold W. aema-Sp Wellsville Green, Raymond W. a-So-Fed-ss Hooper
Green, Harold W. achia-Sp. Wellsville
Green, Raymond W. a-So-Fed-ss Hooper Green, Rollin aema- V Logan
Green, Rollin aema- V. Logan Greenhalgh, Alma c-V Delores, Colo.
Greenhalgh, Alma c-V Delores, Colo. Gregory, Fred E. a-V-Fed Ogden
Gregory, Fred E. a-V-Fed Ogden Griffin, Louis H. c-F Newton
Griffin, Louis H. c-F Newton Griffin, Lillian ss Ogden
Grittin, Lillian SS Ooden
Griffin, Walter 1. aema-v
Griffiths, Maria ho-V Logan
Grimaud, Virginia C-30-55 Logan
Groebli, Geo. A. aema- Sp Springville
Groesbeck, W. Berton g-50 Santa Clara
Gubler, Helen A. g-G Wellsville
Gunnell, Mrs. Elsie SS Randolph
Gurell, Norbert A. aema V-Fed Vernon
Gustayson, Ernest L. a-v-red Cardston Alta Canada
Gustavson, Ernest L. a-V-Fed Cardston, Alta, Canada Hadfield, Bereniece ho-Sp Salt Lake City Hadfield, Edward a-So
Hadfield, Edward a-So Sait Earce Conf

Hadley, Lawrence aema-V	Ogden
Haight, M. Zina ho-F Oakley	. Idaho
Haight, M. Zina ho-F Oakley Haldeman, Ward F. a-F Pine Gro Hale, Sumner E. c-V Oakley	ve. Pa.
Hale, Sumner E, c-V Oakley	. Ídaho
Hales, H. Lee a-F Oakley	, Idaho
Hall, Benj. I. Jr. aema-V-Fed	Logan
Hall, G. Raymond a-V	Orden
Hall Furance 2-V	Ogden
Hall, Eugene a-V Hamp, Mrs. Malfre ho-V Hansen, Carol ho-So B	Lacan
Hange Coul he Se	Logan
Hansen, Clarice T. ho-So Pro	ountiful
Hansen, Clarice 1. no-50 Pro	ovidence
Hansen, Donald J. aema-V	Epnraim
Hansen, Ernest L. g-So	Logan
Hansen, Ernest R. a-S Salt La Hansen, Lillis C. aema-V Hansen, Lola g-F	ake City
Hansen, Lillis C. aema-V	Trenton
Hansen, Lola g-F	Brigham
Hansen, Madge g-FRigby	, Idaho
Hansen, Merrill aema-V Hansen, Nellie P. ho-Sp	Logan
Hansen, Nellie P. ho-Sp	. Logan
Hansen Nels S. c-Sp	. Logan
Hansen, Percy aema-J Sr Hansen, Willard M. c-So Salt La	nithfield
Hansen, Willard M. c-So Salt La	ake City
Hardy Leon D. c-G-ss	. Logan
Harmon, Frank N. a-S St. Harmston, Albert F. aema-V-Fed-ss R	George
Harmston, Albert F. aema-V-Fed-ss R	cosevelt
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Harner, Thos. R. a-V Ho	onevville
Harper, Thos. R. a-V	onevville
Harris, Alfredo a-V-Fed-ss Pagosa Spring	oneyville s, Colo.
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Harris, Alfredo a-V-Fed-ss Pagosa Spring Harris, E. Eugene a-V Salt La Harris, Forrest E. aema-V Denve Harris, Karl O. aema-So Harrison, Alton B. c-F Harrison, James A. aema- V-Fed-ss Harrison, Lee B. g-F Hart, Carl E. ss-Fed Kennesbur Hart, Chas. J. a-J. Salt La Hartman, Fred L. ss-Fed Alamos Harvey, Hugh a-S Hatch, Geneive ho-So Hatch, Houston a-V P Hatch, Katherine C. ho-F-ss Franklin Hatch, Lafavette T. c-So	oneyville, colo. Logan Logan Lapoint Logan g, Colo. ake City ta, Colo. Heber ds Cross anguitch 1, Idaho Logan Lapoint Logan colo. Logan colo. Logan colo. Logan colo. Logan colo. Logan colo. Logan Logan Logan Logan colo. Lo
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Harris, Alfredo a-V-Fed-ss Pagosa Spring Harris, E. Eugene a-V Salt La Harris, Forrest E. aema-V Denve Harris, Karl O. aema-So Harrison, Alton B. c-F Harrison, James A. aema- V-Fed-ss Harrison, Lee B. g-F Hart, Carl E. ss-Fed Kennesbur Hart, Chas. J. a-J. Salt La Hartman, Fred L. ss-Fed Alamos Harvey, Hugh a-S Hatch, Geneive ho-So Hatch, Houston a-V P Hatch, Katherine C. ho-F-ss Franklin Hatch, Lafayette T. c-So Hatch, Launa c-V Oxfort Hatch, Leah ss Franklin Hatch, Mary c-So Mood Hatch, Meltiar V. c-F P Hartle, Mrs. Lucile C. g-Sp Hartley, Ernest a-V Malace	oneyville, colo. Colo. Logan Lapoint Logan Colo. Logan Colo. Heber City Colo. Heber Colo. Logan di Idaho Logan di Idaho Logan di Idaho Logan di Log
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Hayes, Harry M. a-V-Fed	. Grand Junction, Colo.
TT T Francis a Co	Salt Lake City
Heggie, Felicia ho-S-ss Heinrich, Esther J. ss	Clarkston
Heinrich Esther I. SS	Smithfield
Hendricks, C. Durrell c-F Hendricks, I King g-So	Logan
II and riches I Vine a-So	Richmond
Hendry, Marie ss	Wellsville
Henrie, Irvin L. aema-J	Manti
Henrie, Irvin L. aema-J	Logan
Hess, W. Roscoe g-V	Thetaham Amigana
Heywood, Ida ho-S	I natcher, Arizona
Heywood, Ida ho-S	Panguiten
TT	viesa. Arizulia
III: 1 Comove ho E	neper
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Hickle Homer A sema-V-Fed-ss	Divide, Colo.
Hicken, Wm. R. SS-Fed-actina V. Hickle, Homer A. aema-V-Fed-ss Hickman, James H. aema-Sp	Tooele
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Hickman, Radino L. c-F	Logan
Hickman, Radino L. C-F	Kanah
Hickman, Radino L. CT  Hicks, Mark L. aema-V-Fed  Hill, Geo. D. aema-V-Fed	Mountainhura Ark
Hill, Geo. D. aema-V-Fed	Mountainouig, Air.
Hill, Geo. D. aema-v-red  Hinckley, Mabel g-Sp  Hinckley, Paul B. g-F	Onder
Hinckley, Paul B. g-F	Ogden
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TY C T 1 D - W Ead	Calenwood Shrings Colo.
Transpar Mag Tradio B sc	Logan
Hogensen, Mrs. Lydia D. 35	Los Angeles, Calif.
Hogensen, Mrs. Lydia B. ss	Hyrum
Holm, Adelaide ss	Hyrum
Holm, Addison Stanley c-So	Markle Felle Towns
Holman, Chas. W. a-V-Fed	Marbie Falls, Texas
Holmgren, Lydia ss	Bear River City
Holt, Gladys ho-So	Spanish Fork
Holton, Leroy B. aema-V-Fed	Bennington, Vt.
II Elisabeth U ~ V-cc	Logan
Homer, John A aema-V Homer, Leo_K. g-J-ss	Smithfield
Homer Leo K g-I-ss	Logan
Hono Coo T C.V	Malad, Idano
Hooper, John C. g-So	Hooper
Horne, Aaron S. ss	Richfield
Horne, Aaron S. ss	Diahfield
Horne, Mrs. Mary T. ss	Onl-1o-
Hortin, Forrest aema-V	Oakley
Hortin, Glenn M. aema-V	Oakley
Houtz, Karl G. aema-V	Provo
Ushbard Pauline co	Willard
Hudson Myron 2-V-Hed	Smithfield
Hughes Ada ss	
Hughes, Isabella ss Hull, Clyde aema-V	Logan
U.11 Clude sems-V	Hooner
Trun, Clyde acma-v	irooper

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Hull, Robert R. a-Sp
Hulme, Rita, ssLogan
Hulse, Wm. aema-V Rigby, Idaho Humphreys, LaVon S. c-V Logan Hunsaker, Laland c-V Honeyalle
Humphreys LaVon S c-V Logan
Humphreys, Lavon S. V. Honeyville
Hunsaker, Laland C-V
Hunter, W. Spencer a-So Lewisville, Idaho
Hurren, Clarence A. ss. Hyde Park Hurst, Merlin L. aema-V. North Logan Hurst, Wm. F. aema-V. North Logan
Hurst, Merlin L. aema-V North Logan
Hurst, Wm. F. aema-V North Logan
Hissey Norma ho-F
Hyde, O. Wendell g-F
Hyde, O. Wendell g-F Logan Hyde, Oneita ss Hyde Park
Harda Ora co Fairview Idaho
Hyden, J. Sidney aema-V Foremost, Alta, Canada Hyer, Lovell ho-V Lewiston
Tydell, J. Skilley dellia-V Porchlost, That, Canada
Hyer, Lovell no-v
Illum, Edgar S. a-V-Fed Malad, Idaho
Ipson, Ivan aema-V
Israelson, Orson W. g-G North Ogden
Ivins, Bliss, ho-F Lund, Nevada
Trine Harols R aema-V Lund Nevada
Ivins, Loraine a-F. Lund, Nevada Jackson, Miriam ho-So Logan
Incheon Miriam ho-So
Jacks Halena ss Revhire Idaho
Jacobs, Helena ssRexburg, IdahoJacobson, P. J. c-VSafford, Arizona
Jacobson, F. J. C-V
James, Jennie ss Paradise Jamison, Clarence E. aema-V Lewiston
Jamison, Clarence E. aema-V Lewiston
Jamison, Lula ho-Sp Logan
Jardine, Wanda c-V Logan
Ienkins Hattie ss
Jenkins, Leslie M. g-Sp Logan
Jenkins, Leslie M. g-Sp Logan Jenkins, Louie ss Freedom, Wyo.
Jensen, Adolph L. g-Sp Ephraim
Jensen, Hazel M. g-So Bear River City
Jensen, Hyrum S. aema-V-Fed Ogden
Jensen, Izola D. ho-F Ephraim
Jensen, Izola D. no-F
Jensen, Mildred ss
Jensen, Oleen A. a-F Preston, Idaho
Jepperson, Owen H. aema-V
Jerman, I. Donald aema-S Santaquin
Jesson F. Donald g-F-ss Millyille
Jessop, Vergel Y. aema-V Millville Jex, Francis H. c-F Spanish Fork
Joseph Fork
Johnson, Alta ho-So Grantsville
Johnson, Austin L. aema-V Bear River City
Johnson, Austin L. aema-v Bear River City
Johnson, Clover V. g-F-ss Logan Johnson, Eric A. c-S Logan Logan
Johnson, Eric A. c-S Logan
Johnson Estella ss Avon
Johnson, George McCov a-So
Johnson Greta ho-So
Johnson I. Arthur ss Brigham
Johnson, Melvin A. g-F Bear River City
Johnson, Mervin 11. g 1 Dear River City

	Cranteville
Johnson, Pharis c-F	, Grantsvinc
Jones, Daniel W. c-V	Samaria, Idano
Jones, Baniel W. c-V  Jones, Eliza A. ss  Jones, Franklin L. aema-V-Fed-ss	Newton
Jones Franklin I aema-V-Fed-ss	Sandy
Jones, Gladys ho-So	Salt Lake City
Jones, Hyrum P. ss-Fed	Enoch
Jones, Hyrum 1. 55-1 cd	Malad, Idaho
Jones, Hyrum P. ss-Fed Jones, Katie E. ho-F Jones, Lawrence W. a-F	Monroe
Jones, Luella P. ho-S-ss	Logan
Jergensen, Geo. E. a-v-Fed	Logan
Jorgensen, Geo. E. a-V-Fed Jorgensen, Hazel Armeda c-V Jorgensen, Milton aema-V	King
Jorgensen, Milton aema-v	Logan
Jorgensen, Milton aema-v  Jorgensen, Osmond O. c-So  Jory, Ted a-V-Fed-ss	Saninera, Colo.
Jory, Ted a-V-Fed-ss Judd, Marguerite g-F	Salt Lake City
Judd, Marguerite g-F  Judd, Samuel H. c-Sp	Eureka
Judd, Samuel H. c-Sp	El Paso Texas
Jussewieg, Louis de aema-Sp-Fed-ss	Lewiston
Karren, Leavitt aema-V	T
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Keller, Allen D. g-F	Mink Creek, Idaho
Jussewieg, Louis de aema-Sp-Fed-ss Karren, Leavitt aema-V Keller, Allen D. g-F Keller, Melvin M. c-Sp	
Keller, Melvin M. c-Sp	Hot Springs, Idaho
Kelley, Clarence L. a-V-Fed Lava	Hot Springs, Idaho London, England
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Kelley, Frederick H. a-V-Fed-ss	Hot Springs, Idaho London, England Canton, Kansas
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Lava Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss	Hot Springs, Idaho London, England Canton, Kansas Fresno, Calif.
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Lava Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed	Hot Springs, Idaho London, England Canton, Kansas Fresno, Calif. Salt Lake City
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Lava Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed	Hot Springs, Idaho London, England Canton, Kansas Fresno, Calif. Salt Lake City
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Lava Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed	Hot Springs, Idaho London, England Canton, Kansas Fresno, Calif. Salt Lake City
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Lava Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J	Hot Springs, Idaho London, England Canton, Kansas Fresno, Calif. Salt Lake City Logan Manti Treasuraton, Idaho
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Lava Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J	Hot Springs, Idaho London, England Canton, Kansas Fresno, Calif. Salt Lake City Logan Manti Treasuraton, Idaho
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Lava Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J Kennington, Cyrene ho-V Kent, Claude aema-V Kent, Lavene ho-V	Hot Springs, Idaho London, England Canton, Kansas Fresno,Calif. Salt Lake City Logan Manti Treasureton, Idaho Lewiston Lewiston Lewiston
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Lava Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J Kennington, Cyrene ho-V Kent, Claude aema-V Kent, Lavene ho-V	Hot Springs, Idaho London, England Canton, Kansas Fresno,Calif. Salt Lake City Logan Manti Treasureton, Idaho Lewiston Lewiston Lewiston
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Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J Kennington, Cyrene ho-V Kent, Claude aema-V Kent, Lavene ho-V Kent, Lavene ho-V Kent, Verna ho-Sp Keoppel, Phillip aema-V-Fed-ss Khan, Ameen a-G-ss Khan, Jafar S. ss Kilburn, A. Golden a-F	Hot Springs, Idaho London, England Canton, Kansas Fresno,Calif. Salt Lake City Logan Manti Treasureton, Idaho Lewiston Lewiston Lewiston Denver, Colo. Teheran, Persia Morgan Huntington
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J Kennington, Cyrene ho-V Kent, Claude aema-V Kent, Lavene ho-V Kent, Lavene ho-V Kent, Verna ho-Sp Keoppel, Phillip aema-V-Fed-ss Khan, Ameen a-G-ss Khan, Jafar S. ss Kilburn, A. Golden a-F	Hot Springs, Idaho London, England Canton, Kansas Fresno,Calif. Salt Lake City Logan Manti Treasureton, Idaho Lewiston Lewiston Lewiston Denver, Colo. Teheran, Persia Morgan Huntington
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J Kennington, Cyrene ho-V Kent, Claude aema-V Kent, Lavene ho-V Kent, Lavene ho-V Kent, Verna ho-Sp Keoppel, Phillip aema-V-Fed-ss Khan, Ameen a-G-ss Khan, Jafar S. ss Kilburn, A. Golden a-F	Hot Springs, Idaho London, England Canton, Kansas Fresno,Calif. Salt Lake City Logan Manti Treasureton, Idaho Lewiston Lewiston Lewiston Denver, Colo. Teheran, Persia Morgan Huntington
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Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J Kennington, Cyrene ho-V Kent, Claude aema-V Kent, Lavene ho-V Kent, Lavene ho-Sp Keoppel, Phillip aema-V-Fed-ss Khan, Ameen a-G-ss Khan, Jafar S. ss Kilburn, A. Golden a-F Killpack, J. Movell a-Sp Kimball, Chester C. aema-V-Fed Kimball, Chase R. g-J	Hot Springs, Idaho London, England Canton, Kansas Fresno, Calif. Salt Lake City Logan Manti Treasureton, Idaho Lewiston Lewiston Denver, Colo. Teheran, Persia Teheran, Persia Huntington Ft. Duchesne Driggs, Idaho
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J Kennington, Cyrene ho-V Kent, Claude aema-V Kent, Lavene ho-V Kent, Lavene ho-Sp Keoppel, Phillip aema-V-Fed-ss Khan, Ameen a-G-ss Khan, Jafar S. ss Kilburn, A. Golden a-F Killpack, J. Movell a-Sp Kimball, Chester C. aema-V-Fed Kimball, Chase R. g-J King, Edward aema-V-Fed	Hot Springs, Idaho London, England Canton, Kansas Fresno, Calif. Salt Lake City Logan Manti Treasureton, Idaho Lewiston Lewiston Denver, Colo. Teheran, Persia Teheran, Persia Huntington Ft. Duchesne Driggs, Idaho Rupert, Idaho
Keller, Melvin M. c-Sp Kelley, Clarence L. a-V-Fed Kelley, Frederick H. a-V-Fed-ss Kelley, Russel M. aema-F-ss-Fed Kelley, Vea R. a-V-Fed-ss Kendall, Wm. W. aema-V-Fed Kennard, Frank g-F Kenner, R. Lee a-J Kennington, Cyrene ho-V Kent, Claude aema-V Kent, Claude aema-V Kent, Lavene ho-V Kent, Verna ho-Sp Keoppel, Phillip aema-V-Fed-ss Khan, Ameen a-G-ss Khan, Afar S. ss Kilburn, A. Golden a-F Killpack, J. Movell a-Sp Kimball, Chester C. aema-V-Fed Kimball, Chase R. g-J King, Edward aema-V-Fed King, Geo. Edw. a-G	Hot Springs, Idaho London, England Canton, Kansas Fresno,Calif. Salt Lake City Logan Manti Treasureton, Idaho Lewiston Lewiston Lewiston Denver, Colo. Teheran, Persia Morgan Huntington Ft. Duchesne Driggs, Idaho Rupert, Idaho Garland Logan
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V.
Knight, Geo. C. a-S-Fed
Knight, Gladys Y. ho-V Salt Lake City
Knight Kenneth a-Sp Salt Lake City
Knowles Willard B. a-F Logan
Vicenitae Coo E o C
Knudsen, Hyrum C. a-V-Fed Blue Water, New Mexico
Knudsen, Hyrum C. a-v-red Black Water, I've Make
Kofoed, Paul R c-V. Lava Hot Springs, Idaho Kotter, Horace H. a-F. Logan
Kotter, Horace H. a-F Logan
Krebs Powland a-V-Fed Myton
Kung Seymour S. g-V-FedLogan
Kunz Zina c-F-ss Logan
Ta Real Arthur aema-V-Fed-ssSilver City, New Mexico
Taible Albert E sema-E ()gden
Langton, Lucie G. g-So Shelley, Idaho Larsen, Axel H. aema-V-Fed Douglas, Wyo.
Langton, Lucie G. 9-50 Douglas Wyo
Larsen, Axel H. aema-v-Fed Douglas, wyo.
Larsen, Ada ss Logan
Larsen, Esther ss
Larsen, E. Arlen aema-Sp Preston, Idaho
Larsen Floyd C. aema-So Logan
Tarsen Hazelss Logan
Larsen, Helen c-So Mt. Pleasant
Larsen, Myrtle ss Smithfield
Larsen, Myrile SS
Larsen, N. Platt c-Sp Preston, Idaho Larsen, Orlean c-V Logan
Larsen, Orlean c-V
Larsen, Orpha ss Mendon
Larsen, Parley R. c-So-ss-Fed Logan
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Larsen, Roldo a-V-Fed
Larsen, Rue ss
Latimer Las I c-V-ss-Fed Garfield
Laub, Emma K. g-S Logan
Laub, Ellina R. 8-5
Law, Albert J. c-F . Logan Law, Elizabeth J. ho-Sp-ss . Logan
Law, Elizabeth J. no-Sp-ss
Lee, Eli F. ss
Leigh, Carrie ho-So
Lemmon, Claud C. ss Mendon
Lemon, Frank D. a-V Ferron
LaVora John Laema-V-Fed Chicago, III.
Lewis, Reva ho-J Payson Lewis, Willard J. c-F Logan
Lowis Willard I c-E
Limits, William I or W
Lindblad, Victor L. g-V Logan Lindley, Bert J. aema-V Wayan, Idaho
Lindley, Bert J. aema-v wayan, Idaho
Lindsay, Agnes ss-ho-J Heber
Linford, Arletta ho-Sp Garland
Linford, Arthur J. a-FGarland
Linford, Chas. H. a-So Garland
Linford, Leon B. g-F Logan
Linford, Maurice B. a-So Logan
I loud Appie ce Logan
I Chee D o V
Lloyd, Chas. P. a-V St. Anthony, Idaho Lloyd, Lucile g-F St. Anthony, Idaho
Lloyd, Lucile g-F St. Anthony, Idano

Loberg, Bjarne I. a-V-Fed-ss	Minneapolis, Minn.
Logan John S. aema-Sp-Fed	Sharptown, Md.
Logan, John S. aema-Sp-Fed Logsdon, Jas. F. aema-V-Fed	Dillon, Colo.
Tong Filmer R ss-Hed	St. Derince, Ind.
Longhurst, G. Leonard a-V-Fed	Woodruff
Loose, Clarence C. c-F	Provo
Lothyan Whitney M ss	Manassa, Colo.
Lougee, John a-Sp-Fed	Sharon, Idaho
Lorentzen, Eden C. ss	Salina
Love, Wilbur J. aema-V-Fed-ss	Springville
Loveland, Chester a-V-Fed	Tabiona
Loveless, Glenn L. a-So	Payson
Low, Veda ss	Paris Idaho
Low, Veda ss	Franklin Idaho
Lowe, Aletha D. no-Sp	Tremonton
Lowe, Mrs. Sarah ss	Enoughin Idaha
Lowe, Ruby ho-V	Dentard Vances
Loyd, Earl J. aema-F-Fed-ss	Rantoui, Kansas
Luke, Harold c-So	C-14 T oles City
Luke, Pearl ho-F	Sait Lake City
Lund Yenna a-G	Logan
Lyman, Frank C. aema-V	Parowan
Lyon, Frank M. aema-V-Fed	Ephraim
McAllister, Martin L. aema-V-Fed	Panguitch
McAllister, Martin L. aema-V-Fed  McBride, Bessie B. ss	Pima, Arizona
McRride Mrs (ora (+ ss	American Fork
McCawley, Edward H. a-V-Fed	American Fork
McCulloch, Lawrence L. c-V-Fed	Logan
McDonald, Howard aema-S	Murray
McDonald, Loa S. ho-S	Murray
Macfarlane Donald C. aema-So	St. George
McCavin Irma a V	Idaho Falls Idaho
McGavin, Jessie g-F	Idaho Falls, Idaho
McGavin, Jessie g-F MacKay, Ina ho-F	Salt Lake City
McKay, Morgan P. a-S	Logan
McKenzie, Leland a-V	Springville
McKinnon, Freeman F. g-F  McLeod, Delgarno aema-V-Fed-ss  McMullin, Edith ss	Evanston, Wyo.
McLeod Delgarno aema-V-Fed-ss	Rush. Colo.
McMullin Edith ss	Leeds
McMullin, Thos. H. a-S	Heber
McNeil, Inez g-F	Logan
Madsen, Annie ss	Logan
Madsen, LaRue M. ho-F	Logan
Madsen, Leah ho-F	Fohraim
Madsen, Leonard M. c-F	American Fork
Madsen, Newel J. c-F	Toran
Malan Dana J. T. V	T own
Madsen, Raymond J. g-V Madsen, Richard A. a-Sp	Logan
Madsen, Richard A. a-Sp	Marrie
Magleby, Jos. aema-V	Wonroe
Malmberg, Florence ss	Logan
Malmberg, Florence ss Malsbury, Wm. C. ss-Fed Manning, James aema-V	Humboldt, Kansas
Manning, James aema-V	Hooper

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Manning, Leroy W. a-V-Fed Garland
Manning, Leroy W. a-V-Fed  Marsh, Strawn, ss-Fed-aema  Martin, Daniel W. c-V  Martin, Lavern c-V  Martineau, Aleen E. ho-F  Martini, Wm. aema-F  Martini, Wm. aema-F  Logan  Martini, Wm. aema-F  Logan  Logan
Marsin Daniel W c-V Samaria, Idaho
Martin, Damei W. C-V Samaria Idaho
Martin, Lavern C-V
Martineau, Aleen E. ho-F
Martini, Wm. aema-F Inatcher, Arizona
Maughan, Angus M. g-S-ss
Mr. 1 Plais to C
Maughan, Jas. C. aema-V Benson Maughan, Jos. S. a-So Wellsville
Maughan Ios S 2-S0 Wellsville
Maughan, Jos. S. a-50  Maw, Rufus R. aema-V
Mawhinney, Wm. E. aema-F Park City
Mawhinney, Wm. E. aema-r
Maxfield, Henry g-F Logan
Maxfield, Henry g-F  Maxwell, Cleaone ho-So  Mayberry, Raymond aema-V  Maycock, Miriam g-V-ss  Logan  Tuttle Okla.
Mayberry, Raymond aema-V Hooper
Mayrock Miriam g-V-ss Logan
Meek, Jerald R. aema-F Preston, Idaho Mellor, Zada g-F Mellor, Zada g-F Adams Mass
Meek, Jeraid K. achia-P Manti
Mellor, Zada g-F
Manager A withing C name V-Hell-SS
Mendenhall, Blanche ho-S
Mendenhall, Lois ho-F Springville Merrill, Anna M. ho-F Logan
Merrill Anna M. ho-F Logan
Morrill Andene hortes
as the first E of Logan
Merrill, Ethel L. g-F Logan
Merrill, Ethel L. g-F
Merrill, Etter L. g-T  Merrill, Glenn W. c-So  Merrill, Ivin S. c-V  Richmond  Merrill, LaVille H. g-F  Merrill, LaVille D. ho-J  Logan
Merrill, Ivin S. c-V
Merrill, LaVille H. g-F
Merrill. Loila D. ho-J Logan
Merrill, Mrs. Millie L. ho-V-ss Logan
Merrill, Olonzo David aema-So Richmond Merrill, Oretta D. ho-S-ss. Logan
Merrill Orotto D ho-S-ss
NE '11 David Cook C
Merrill, Wilford J. c-J Logan Meyrick, Jos. c-Sp Logan Logan Logan
Meyrick, Jos. c-Sp
Miles Took a So
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Miller, Irvin S. g-F Logan
Miller, Irvin S. g-F
Note 1. 11 T Homeld a Sa
Motton, Leroy aema-V  Moffitt, Wells aema-V  Montague, Lyonal A. ss  Lava Hot Springs, Idaho  Richmond
Montague Lyonal A. ss Lava Hot Springs, Idaho
Monson, Vernon c-V  Monson, Wilford R. aema-Sp  Montgomery, Jos. K. aema-V  Ogden
Montgomery, Jos. K. aema-V Ogden

Morgan, David D. aema-V Logan
Morgan Grant R. a-F. Spanish Fork
Morgan Mary c-V
Morimoto Geo a-Sp. Hiroshima, Japan
Montary Tafayretta nama-Sa
Mortey Datayette Acha-by Sugar City Idaho
Mortensen, Martin P. a-V Sugar City, Idaho Mortensen, Pen B. ss-Fed Sanford, Colo.
Morris, Laval S. a-So Salt Lake City
Morris, Lavar S. a-50
Morris, Richard A. a-S St. George Morris, Sadie O. ho-F Nephi
Morris, Sadie O. ho-F
Mortensen, Jas. Leo a-S Thatcher, Arizona
Mortensen, Martha ho-F Logan
Mounteer, Percy W. aema-V-Fed
Mounteer, Percy W. aema-V-Fed Union Muir, Ethel ho-V Logan Murdock, Clarence a-F Heber
Murdock. Clarence a-F Heber
Whitehork Itvine B. a-v-reli-ss
Murray, Seymour B. aema-V-Fed Wellsville
Nagle, Harold E. aema-So
Nash, Josie M. ss Boise, Idaho
Naylor, John J. aema-V-Fed Providence
Nebeker, Sidney J. g-So Laketown
Nebeker, Sidney J. g-50
Nelson, Cecelia c-V Logan Nelson, Daniel H. g-Sp-ss Logan
Nelson, Daniel H. g-Sp-ss
Nelson, Earl c-V-Fed-ss Price
Nelson, Earl W. aema-Sp Preston, Idaho
Nelson, Erma c-V Logan
Nelson, Fidelia E. g-So Logan
Nelson, Frank D. a-V Mt. Pleasant
Malaca Coo T some V Fed Hiterorise
Nolcon Hazel ho-So
Nelson Kenneth H c-So Provo
Nelson, Lela ho-V Enterprise
Nelson, Naomi ho-F Morgan
Nelson, Peter a-G Logan
Nelson, Peter C. a-V-Fed-ss Enterprise
Nelson, Parley L. a-Sp Richmond
Nelson, Rebecca c-VLogan
Nelson, Rebecca c-v
Nelson, Ray a-F Heber
Netcher, Ray C. aema-V
Neuenschwander, Clarence A. a-F Salt Lake City Neuenschwander, Lorenzo aema-V Weston, Idaho
Neuenschwander, Lorenzo aema-V Weston, Idaho
Neves, Jos. V. aema-V Millville
Newman, Clarence a-V-Fed Lander, Wyo.
Newman, Harry W. ss Ogden
Nibley Chas W III c-Sp Logan
Nichols David a-V-Fed Lamont, Idaho
Nichols Mark H. a-F Brigham
Nicholls, Wm. a-F
Nielsen, Beatrice M. ho-J Pocatello, Idaho
Nielsen, Edith ho-F
Nielsen, Eva Joy g-G-ss
Meisen, Eva Joy g-G-ss

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Nielsen, Gladys ho-F	Hyrum
Midson Loo H a I	Union, Oregon
Nielson Iillie es	Logan
Nielsen Oscar W. a-V-Fed	Millville
Minlage Dhyllin on	Logan
Nielsen, Russel B. a-V	Weston, Idaho
Noble, Flora ss	Logan
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Norris, Herschel W. aema-V-Fed Norton, E. Virgil a-F	Holly Colo.
Norris, Herschei W. aeina-V-Fed	Salt Lake City
Nuffer, Louis F. a-G	I oran
Nutter, Louis F. a-G	Avon
Nuhn, Leslie C. ss	Cfield
Nunnelley, Irene c-Sp	Garneld
Nunnelley, Irene c-Sp Nunnelley, Thelma g-Sp	Garneid
Nuttall, Ethel ss	Provo
Oberhansley, Pearl g-S	Provo
Nuttall, Ethel ss Oberhansley, Pearl g-S Obray, Ernest S. a-So-Fed	Paradise
O'Brien, John J. a-V O'Brien, Timothy Jr. aema-V-Fed Odell, Afton ho-So-ss	Murray
O'Brien, Timothy Ir. aema-V-Fed	. Powell, Wyo.
Odell Afton ho-So-ss	Logan
Odell, Florence g-J-ss Ogden, J. Arden aema-V	Logan
Orden I Arden sems-V	McCornick
Olesen, Einar B. c-S	Logan
Olesen, Esther A. c-V	Logan
Olesen, Granville a-Sp	Logan
Olson, Delno a-V	Logan
Olsen, H. Hugo aema-V	Peterson
Olsen, H. Hugo aema-v	Logan
Olsen, Henry C. aema-F	Monroe
Olsen, Homer C. aema-V	Dan Divor City
Olsen, Hortense ss	Bear River City
Olsen, Lillian ss	Hyrum
Olsen, Richard E aema-Sp	Hyrum
Olsson, Alice c-V	Logan
Orma John A g-So	Nephi
Oamand I Farm or So-cc	Logan
Osmond, John C. aema-V	Rigby, Idaho
Osmond, John C. aema-V Osmond, Waldo g-V Osmond, Wendell c-F-ss	Logan
Osmond, Wendell c-F-ss	Logan
Otteson Vern C. a-V-Fed	. Saniord, Colo.
Owen E Vern 2-S	Morgan
Owen, Luella B. g-V Packard, Owen a-F	Logan
Poolsond Owen a-F	Springville
Packer, Grant P. aema-Sp	Preston, Idaho
Page, Anna ho-Sp	Payson
Page, Thos. D. a-V-Fed	Brigham
D. L. Edwin I. same V. Fed so	Vernal
Palmer, Edwin J. aema-V-Fed-ss	Codar City
Palmer, Evelyn ho-So	Dlain City
Palmer, Levon aema-V	Moled Tools
Palmer, Edwin J. aema-v-red-ss Palmer, Evelyn ho-So Palmer, Levon aema-V Palmer, W. Wendell a-J	Malad, Idaho
Parke, Ralph a-So-ss-Fed Parker, Stella ss	Kamas
Parker, Stella ss	Wellsville
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Parker, Ianthus R. a-F	Hinckley
Darkinson Clenn S cc	Logan
Parkinson, Maurice aema-F	Wellsville
Parkinson, Wallace B. g-J	Logan
Parkinson, wanace b. g-j	Calle Talas City
Parry, Norman ss	Salt Lake City
Parry, Wilford E. a-V-Fed-ss	Logan
Partridge, Clara ho-F	Salt Lake City
Patterson, Leonard aema-V	Hooper
Peacock Mildred B. ss	Manti
Donmon Lillia ho V	Iona Idaho
Dearson Vore of	Oakley
Pearson, Vera ss	Sugar City
reck, Bramwell L. c-50	Janear City
Pedersen, Alice ho-F	Logan
Pedersen, Lyman C. c-So Pehrson, Anthon Jr. aema-V	Logan
Pehrson, Anthon Jr. aema-V	Logan
Pehrson, Raymond E. c-F	Vernon
Pendleton, Anthony a-F	St. George
Perkins, Walter G. g-F Perry, P. Weston a-So	Wellsville
Down D Wooton a Co	Solt Take City
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Peterson, Andrew aema- V	Logan
Peterson, Constance ss	Hyrum
Peterson, Collos S. aema-V	Hyde Park
Peterson, Elsie g-S	Portland, Oregon
Peterson, Harold g-G-ss	Bloomington, Idaho
Peterson, Harry L. aema-V	Scripio
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Peterson Irone G-Sn	River Heights
Peterson, Irene g-Sp	River Heights
Peterson, Katherine g-V-ss	Fillmore
Peterson, Katherine g-V-ss  Peterson, Lester E. a-V-Fed	Fillmore Logan
Peterson, Katherine g-V-ss  Peterson, Lester E. a-V-Fed  Peterson, Maurine M. g-G-ss	Fillmore Logan Logan
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss	FillmoreLoganLoganLogan
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss	FillmoreLoganLoganLogan
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp	
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp	
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Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F	Logan Logan Logan Logan Logan Preston, Idaho Smithfield Brigham
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F Peterson, Thelma ho-F	Logan Logan Logan Logan Logan Logan Smithfield Brigham Portland, Oregon
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Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F Peterson, Thelma ho-F Pike, Julian A. aema-F . x Pinnin. Roscoe aema-V-Fed-ss	Logan Logan Logan Logan Logan Logan Preston, Idaho Smithfield Brigham Portland, Oregon Eureka Gillette, Wyo.
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F Peterson, Thelma ho-F Pike, Julian A. aema-F . x Pippin, Roscoe aema-V-Fed-ss Pixton. Robert L. a-S	Logan Logan Logan Logan Logan Preston, Idaho Smithfield Brigham Portland, Oregon Eureka Gillette, Wyo.
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Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F Peterson, Thelma ho-F Pike, Julian A. aema-F . x Pippin, Roscoe aema-V-Fed-ss Pixton, Robert L. a-S Pokriots, Eli D. aema-V-Fed-ss Porter, Ellen C. ho-V Porter, Wilford D. g-J Potter, Glenn S. aema-V Poulter, Lenore ss Poulter, Manila ss	Logan Logan Logan Logan Logan Logan Preston, Idaho Smithfield Brigham Portland, Oregon Eureka Gillette, Wyo. Sandy Denver, Colo. Lewiston Logan Bancroft, Idaho Logan Logan
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F Peterson, Thelma ho-F Pike, Julian A. aema-F . x Pippin, Roscoe aema-V-Fed-ss Pixton, Robert L. a-S Pokriots, Eli D. aema-V-Fed-ss Porter, Ellen C. ho-V Porter, Wilford D. g-J Potter, Glenn S. aema-V Poulter, Lenore ss Poulter, Manila ss Powell, Alfred H. g-Sp Powell, Harold O. aema-V	Logan Logan Logan Logan Logan Logan Logan Preston, Idaho Smithfield Brigham Portland, Oregon Eureka Gillette, Wyo. Sandy Denver, Colo. Lewiston Logan Bancroft, Idaho Logan Logan Logan Logan Logan Logan Logan
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed. Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F Peterson, Thelma ho-F Pike, Julian A. aema-F x. Pippin, Roscoe aema-V-Fed-ss Pixton, Robert L. a-S Pokriots, Eli D. aema-V-Fed-ss Porter, Ellen C. ho-V Porter, Wilford D. g-J Potter, Glenn S. aema-V Poulter, Lenore ss Poulter, Manila ss Powell, Alfred H. g-Sp Powell, Harold O. aema-V Price, Chas, a-S	Logan Logan Logan Logan Logan Logan Logan Preston, Idaho Smithfield Brigham Portland, Oregon Eureka Gillette, Wyo. Sandy Denver, Colo. Lewiston Logan Bancroft, Idaho Logan Logan Logan Logan Logan Logan Logan Beaver
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Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F Peterson, Thelma ho-F Pike, Julian A. aema-F . x. Pippin, Roscoe aema-V-Fed-ss Pixton, Robert L. a-S Pokriots, Eli D. aema-V-Fed-ss Porter, Ellen C. ho-V Porter, Wilford D. g-J Potter, Glenn S. aema-V Poulter, Lenore ss Poulter, Manila ss Powell, Alfred H. g-Sp Powell, Harold O. aema-V Price, Lackson a-F	Logan Logan Logan Logan Logan Logan Logan Preston, Idaho Smithfield Brigham Portland, Oregon Eureka Gillette, Wyo. Sandy Denver, Colo. Lewiston Logan Bancroft, Idaho Logan Logan Logan Logan Logan Proyec
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F Peterson, Thelma ho-F Pike, Julian A. aema-F . x. Pippin, Roscoe aema-V-Fed-ss Pixton, Robert L. a-S Pokriots, Eli D. aema-V-Fed-ss Porter, Ellen C. ho-V Porter, Wilford D. g-J Potter, Glenn S. aema-V Poulter, Lenore ss Poulter, Manila ss Powell, Alfred H. g-Sp Powell, Harold O. aema-V Price, Lackson a-F	Logan Logan Logan Logan Logan Logan Logan Preston, Idaho Smithfield Brigham Portland, Oregon Eureka Gillette, Wyo. Sandy Denver, Colo. Lewiston Logan Bancroft, Idaho Logan Logan Logan Logan Logan Proyec
Peterson, Katherine g-V-ss Peterson, Lester E. a-V-Fed. Peterson, Maurine M. g-G-ss Peterson, Mell ho-V-ss Peterson, Merrill aema-F Peterson, Moylen aema-Sp Peterson, Phyllis ho-V Peterson, Royes a-F Peterson, Thelma ho-F Pike, Julian A. aema-F x. Pippin, Roscoe aema-V-Fed-ss Pixton, Robert L. a-S Pokriots, Eli D. aema-V-Fed-ss Porter, Ellen C. ho-V Porter, Wilford D. g-J Potter, Glenn S. aema-V Poulter, Lenore ss Poulter, Manila ss Powell, Alfred H. g-Sp Powell, Harold O. aema-V Price, Chas, a-S	Logan Logan Logan Logan Logan Logan Logan Preston, Idaho Smithfield Brigham Portland, Oregon Eureka Gillette, Wyo. Sandy Denver, Colo. Lewiston Logan Bancroft, Idaho Logan Logan Logan Logan Logan Proyec

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Pulsipher, Leland G. ss	011
Quayle, James Wm. Jr. aema-F	an
Ouerry, Hattie Bell ho-So-ss Mountain Home, Ida	по
Pulsipher, Leland G. ss	no
Damasangan Albert C rel	an
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Ranker, Emery R. a-F  Rasmussen, Erba ho-So  Rasmussen, Geo. aema-V  Smithfic	ant
Rasmussen, Erba no-50 Smithfi	e1d
Rasmussen, Geo. aema-V	eld
Rasmussen, Geo. aema-V Smithfir Rasmussen, Gilbert H. aema-V Kilgore, Ida Rasmussen, Orson aema-V	ho
Rasmussen, Orson aema-V Rigore, Ida	1110
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Read Myrtle C. ho-F	ien
Ray, Jos. F. c-V	len
Read, Walter 1. C. Oxford, Ida	aho
Read, Walter T. c-V Redington, Ray aema-V Reece, Jennie A. ho-J Smithfi	son
Reece, Jennie A. ho-J	eld
Reid, Geo. D. aema-V-Fed-ss  Reid, Ralph A. a-V  Reid, Samuel R. a-V-Fed-ss  Loo	rele
Reid, Samuel R. a-V-Fed-ss	man
Reid, Samuel R. a-V-Fed-ss Log Rice, Inez ss Duche Rice, James L. a-V-Fed-ss Log	sne
Rice, James L. a-V-Fed-ss	man
Rice, Oscar L. aema- F	Sitar
Rice, James L. a-V-Fed-ss  Rice, Oscar L. aema- F  Rhead, Claude E. aema-V  Lo	onn
Rich, Geneva g-J Lo Rich, Letty g-So Lo	gan
Rich, Letty g-So Lo Rich, Irene ho-G Lo	gan
Rich, Irene ho-G Lo Richards, Iva L ss Lo Richards, Jos. H. a-V Salt Lake (	gan
Richards, Jos. H. a-V Salt Lake	ity
Richards, Jos. H. a-v	den
Richardson, Rufus D. a-So	mas
Richardson, Rulus D. a So	laho
Richardson, Rufus D. a-So  Ricks, Francis S. a-V  Ricks, Julia ss  Lo	gan
Ricks, Julia ss Lo Ricks, Paul C. aema-F	gan
Rider, Marguerite ss Lewis	ston
Ririe, Boyd g-F Lo Riter, Wm. E. a-J Salt Inke	gan
Riter, Wm. E. a-J	
Roberts, Willard S. SS Salt Lake Robbins, Alice ss Santa	quin
Robinson, Kenneth C. c-V LC	ogan
Robinson, Beth ho-So Robinson, Kenneth C. c-V Robinson, Lamond W. a-F Salt Lake	gan
Robinson, Lamond W. a-F.  Robinson, Thos. B. ss	City
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Robison, G. Albert a-S Hinckley
Robison, M. Dorwin aema-So
Robison, M. Dorwin aema-So Logan Rogers, Davis W. a-S-Fed-ss Pima, Arizona
Rogers, Louise ho-F-ss Pima, Arizona Rose, Cora L. g-F
Pose Core I or F
Rose, Cora L. g-r
Rose, Lyle ss Malad, Idaho
Rosengreen, Enid ss Logan
Rosengreen, Harold g-FLogan
Rosengreen, Ruby L. g-F-ss Logan
Rosengreen, Ruth ss Logan
Ross, Harold I, aema-V-Fed-ss Logan
Ross, Vio ss Richfield Rossiter, Ruth ho-V Providence
Positer Buth ho V
Rott, Anton aema-V-Fed-ss
Rott, Anton Jenia V-Fed-S Chicago, III.
Rowland, Priscilla ho-So Logan
Rowley, Inger ss Logan Roylance, Hattie W. ho-Sp Logan
Roylance, Hattie W. ho-Sp Logan
Rude, Clarence A aema-V-Fed-ss
Russell, Chas. H. a-Sp-Fed Decatur III.
Ryan, Chas. F. aema-V-Fed Denver, Colo.
Sanford, Fred c-V Springville
Sanford, Ralph B. a-Sp Delta
Conford Curic H ho E
Sanford, Susie H. ho-F Delta Sant, Ira c-F Clifton, Idaho
Sant, Ira c-F
Sant, May, c-V Clifton, Idaho Sauer, Dorothea ss Sheldon, Iowa
Sauer, Dorothea ss Sheldon, Iowa
Sauer, Flora ss Sheldon Iowa
Sauls, Kiefer B. c-G Storrs
Savage, Willis J. a-J Hyrum
Sax, Ira C. a-V-Fed Wendell, Idaho
Schank, Leroy C. c-F
Scharge Korl W - Sc
Schlappy, H. Arnold a-F. Delta
Schiappy, H. Arnold a-F Delta
Scholes, Elino ss
Seager, W. Kennedy a-F Tremonton
Seaman, Geo. A. Jr. a-So Morgan
Seegmiller, Carlos W. aema-Sn.
Seegmiller, Chas, Roscoe a-So
Seely, Chesley P. c-Sp
Selby Arthur I a-V-Fed
Sessions, Alice c-F Logan
Sessions Alexander Logan
Sessions, Alwyn a-F Logan Sgro, Charles L. aema-F. Park City
Sgro, Charles L. aema-FPark City
Shaw, Claris ss Ogden
Shaw Clarke C a-V-Red Markon
Shaw, Earl W. aema-V Tetonia Idaho
Shaw, Mary SS
Sheffield, Ruel L. aema-V
Shelton, Lyle c-V
Shelton, Lyle c-V Magrath, Alta, Canada Shepard, Dorothy A. g-V Logan
Sherner, Dorothea ss
Officer, Dorophica 35 Ugden

of III III To the Wells, Colo.
Shy, Wm. H. aema-V-Fed-ss Cheyenne Wells, Colo.
Simons Jamie ss. Los Angeles, Calif.
Siegfried, Joshua F. aema-So Simons, Jennie ss Los Angeles, Calif. Simpson, Clyde L. aema-V Long Idaho
Simpson, Clyde L. aema-v
Simpson, Cyde L. aema-V
Classifica I illiques Lugan
Clamaber Vound I ho-See
Chidmons Albert I 2-H
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Slaughter, Clark a-V-Fed-ss Hinckley
Slaughter, Clark a-v-Fed-ss
Smith, Abbie ss Logan
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Smith, Charles aema-v  Logan  Logan
Smith, David ss
Smith, David ss Logan Smith, Della g-F Logan
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Smith, Norma ho-F Logan
Smith, Norma ho-F Logan
Smith, Norma ho-F Logan Smith, Olena ss Logan Logan
Smith, Norma ho-F  Smith, Olena ss  Smith R. Denton g-F-ss  Logan  Chill Belled R of F  Clearfield
Smith, Norma ho-F  Smith, Olena ss  Smith R. Denton g-F-ss  Smith, Roland B. g-F  Smith, Roland B. g-F  Smith, Roland B. g-F  Salt Lake City
Smith, Norma ho-F  Smith, Olena ss  Smith R. Denton g-F-ss  Smith, Roland B. g-F  Logan  Logan  Logan  Logan
Smith, Norma ho-F  Smith, Olena ss  Smith R. Denton g-F-ss  Smith, Roland B. g-F  Logan  Logan  Logan  Logan
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, Rulon a-F Smith, S. Cooper a-V Lehi
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, Rulon a-F Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Smith, Sylvan Brigham Smith, Sylvan Brigham
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gerlan W. Sorens V Senterfield Sorensen, Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Cooper a-V Sorens
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Ogden
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Ivin C. aema-V Sorensen, Ivin C. aema-V Sorensen, Frwin, So. Dak.
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Ivin C. aema-V Sorensen, Ivin C. aema-V Sorensen, Frwin, So. Dak.
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Ivin C. aema- Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed Smith, Selval R. Smithfield Sorensen,
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Ivin C. aema- Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed Smith, Selval R. Smithfield Sorensen,
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Ivin C. aema- Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed Smith, Selval R. Smithfield Sorensen,
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, S. Cooper a-V Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Jens aema-V-Fed-ss Sorensen, Jens aema-V-Fed-ss Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed Sorensen, Ruby ss South, Jennie ss Logan Logan Smith South, Jennie ss Logan Logan Logan Smith South, Jennie ss Logan Logan Logan Logan Smith South, Jennie ss Logan
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Jens aema-V-Fed-ss Sorensen, Jens aema-V-Fed-ss Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed Sorensen, Ruby ss Sorensen, Ruby ss South, Jennie ss Southwick, Edward W. a-V Lehi Logan Logan Logan Smith, Solat Lake City Parowan Logan Smith, Sulvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Ogden Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed South, Jennie ss Logan Southwick, Edward W. a-V
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Ivin C. aema-V Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed Sorensen, Philip H. aema-V-Fed Sorensen, Ruby ss South, Jennie ss South, Jennie ss Southwick, Edward W. a-V South South Search ho-F Southwick, Pearl ho-F Lehi
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, Scooper a-V Smith, Scooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Ivin C. aema- V Sorensen, Jens aema-V-Fed-ss Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed Sorensen, Ruby ss South, Jennie ss South, Jennie ss Southwick, Edward W. a-V Southwick, Pearl ho-F Spande, Dorothy F. c-V Logan
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, Scooper a-V Smith, Scooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Ivin C. aema-V Sorensen, Jens aema-V-Fed-ss Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed Sorensen, Ruby ss Smithfield South, Jennie ss South, Jennie ss South, Jennie ss Southwick, Edward W. a-V Southwick, Pearl ho-F Spande, Dorothy F. c-V Spande, Mabel g-Sp-ss Logan Spande, Mabel g-Sp-ss Logan Spande, Mabel g-Sp-ss Logan Spande, Mabel g-Sp-ss Logan
Smith, Norma ho-F Smith, Olena ss Smith R. Denton g-F-ss Smith, Roland B. g-F Smith, Ruby K. ho-Sp Smith, Ruby K. ho-Sp Smith, Rulon a-F Smith, S. Cooper a-V Smith, S. Cooper a-V Smith, Sylvan R. aema-V-Fed Sorensen, Evelyn g-J Sorensen, Gordon W. aema-V Sorensen, Ivin C. aema-V Sorensen, Jens aema-V-Fed-ss Sorensen, Jens aema-V-Fed-ss Sorensen, Philip H. aema-V-Fed Sorensen, Ruby ss Sorensen, Ruby ss Southwick, Edward W. a-V Southwick, Edward W. a-V Southwick, Pearl ho-F Spande, Dorothy F. c-V South Male I g-Sp-ss Logan South Male I g-Sp-ss Logan South Male I g-Sp-ss Logan

Spencer, Geo. A a-F	Salt Lake City
Spencer, Sidney K. c-So	Salt Lake City
Spenny, Addison L. aema-V-Fed	Columbus, Ga.
Stafford, Earl E. a-V-Fed	Lamesa, Texas
Stattord, Earl E. a-v-Fed	Mt. Pleasant
Standing, Russell J. aema-So	Honevville
Stanger, Albert G. a-So	Idaho Falls Idaho
Stanger, Albert G. a-So	Hyrum
Stanton, Alonzo G. aema-V-Fed	Coringville
Starr, LeRoy A. c-F	Clearfield
Steed, T. Jos. a-F Stevens, Agnes ho-F	Orden
Stevens, Agnes ho-F	Possavelt
Stevens, Agnes no-r Stevens, Justus M. a-So Stevens, Mary g-F Stevenson, Sadie B. g-F-ss	Orden
Stevens, Mary g-F	T oren
Stevenson, Sadie B. g-F-ss	T again
Storioncon ( littord A aema-1	LUgan
Stewart, Dean a-Sp	Springville
Stewart, Harry G. aema-So-ss	Leni
Stewart, Myrl S. ho-Sp	American Fork
Stirland Byron aema-H	Providence
Stobaugh Frank M a-V-Fed-ss	Silt. Colo.
Stock, Ray C. aema-V'	Fish Haven, Idaho
Stock Sidney R. g-J	. Fish Haven, Idaho
Stock, Ray C. aema-V Stock Sidney R. g-J Stock, Wesley K. aema-V	Fish Haven, Idaho
Stockton, Cassell H. a-V-Fed Stone, Calvin Wayne aema-V	Villegreen, Colo.
Stone, Calvin Wayne aema-V	Aberdeen, Idaho
Stone, Wm. A aema-V-Fed Stookey, Claudia g-So	Flagler, Colo.
Stookey, Claudia g-So	Salt Lake City
Stookey, Ella M. ho-F	Clover
Stookey, Ella M. ho-F Stout, Alvah Jr. c-F	Nephi
Stoven Henry A sems-V	Salt Lake Lity
Straw, Reed aema-V Strickland, John B. aema-V-Fed-ss Albud	Springville
Strickland, John B. aema-V-Fed-ss Albud	querque, New Mexico
Strong Leroy H. g-So	Logan
Strong, W. I. aema-V-Fed	Alpine
Struve, L. Christian aema-F	Preston, Idaho
Stuart, Wallace aema-V	Clarkston
Stubbs Peter K 2-V-Fed	Gunnison
Sumsion, Spafford a-F	Chester
Sumsion, Spafford a-F	Logan
Sutherland, Thos. G. aema-So Sutton, W. Hugh a-S	Logan
Sutton, W. Hugh a-S	Paris, Idaho
Swetin Toseph a-Sp	Logan
Tabor, Chas, S. ss	Revere Beach, Mass.
Tanner, Arthur E. a-Sp. Tanner, Carlos H. aema-V.	Payson
Tanner, Carlos H. aema-V	Douglas, Arizona
Tanner, Nettie g-F	Logan
Tanner, Olive ho-V	Logan
Tate, C. Delmer c-F	Tooele
Tanner, Nettie g-F Tanner, Olive ho-V Tate, C. Delmer c-F Tate, T. Theo. a-V	Tooele
Taylor, Arthur C. a-Sp Taylor, Dunn c-F	Loa
Taylor, Dunn c-F	Springville

Taylor, Elton L. a-So Provo
Taylor, Mabel c-V Logan
Taylor, Melvin a-So-Fed-ss
Terry Mrs Rehecca I ho-V
Thacker, Fay E. aema-V Heber
Thacker, Fay E. aema-V Heber Thain, Geo. Wendell c-J Logan
Thain, Henry c-V Logan
Thatcher, Hanna c-Sp Logan
Thatcher, Lettie ho-Sp Logan
Thatcher, Reginald aema-V Logan
Thayne, Chester a-V-Fed Washington
Thomas Alta g-F Heber
Thomas Elvin D. a-V-Fed
Thomas, Florence ss Logan
Thomas, Walter M. c-V Samaria, Idaho
Thomas, Perry G. c-V-Fed Spanish Fork
Thompson, David W. aema-V-Fed Enterprise
Thompson, Earl g-Sp Logan Thompson, Ezra C. aema-V-Fed St. George
Thompson, Ezra C. aema-V-Fed St. George
Thompson, Frederick aema-V-Fed Park City
Thompson, Grant L. c-Sp Scipio
Thompson Oney I 2-V-Fed Salt Lake City
Thompson, Mrs. Rose J. ho-V St. George
Thompson, Mrs. Rose J. ho-V St. George Thomsen, J. Adelbert a-V Freedom, Wyo.
Thomson, Wendell J. g-So Richmond Thorley, Irene ho-F Cedar City Thornley, J. Done aema-V Smithfield
Thorley, Irene ho-F Cedar City
Thornley, J. Done aema-V Smithfield
Thorpe, Derle aema-V Weston, Idaho
Thorpe, Geo. B. aema-V Brigham
Thorne Mahel ho-V Logan
Thorson, Albert aema-V Bear River City
Thorum Alma A. ss Murray
Tingey, Delmar C. a-I Brigham
Inpetts. Altred I. g-1 Hinckley
Titensor, Roscoe aema-J Logan
Tollestrup A. Virgil aema-F Cedar City
Tolman, Claudius aema-V Honeyville
Tolman, John H ss
Tooth Ressie o-So Manti
Tooth, Bessie g-Sp
Trask, Idella F. g-Sp Logan
Trask, Jas. W. aema-V-Fed-ss
Tueller, Adolph C. c-F Paris, Idaho
Tueller, Gottfred J. a-F Paris, Idaho
Tullic Fligsboth of F
Turley F Carlyle a-F Colonia Juarez Chih Mexico
Turley, E. Carlyle a-F Colonia Juarez, Chih., Mexico Vernon, Aldyth g-S-ss Logan Vernon, Lais g-S-ss Logan
Vernon Lois a-S-ss Logan
Victors Mrs Pearl a-V
Victor Victor F c-F
Vickers, Mrs. Pearl c-V  Vickers, Mrs. Pearl c-V  Logan  Victor, Viggo F. c-F  Brigham  Vitorizs, Frank P. a-V-Fed  Idaho Falls, Idaho
vitorizs, Frank 1. a-v-red Idano Fans, Idano

Vogelzang, John H. aema-V-Fed-ss Wagstaff, Evangeline ho-F	Ogden
Wagetaff Evangeline ho-F	Mt. Pleasant
Wahlen, John T. g-V	Hyrum
777 41 TO1 1. T	American Fork
Walker, Rufus H. a-V-Fed	Sandy
Walker, Ruius II. a-v-red	Colonia Inarez, Chih., Mexico
Walker, Rufus H. a-V-Fed	Colonia Juarez, Chih., Mexico
Wallace, Mae ss	Monticello
Walsh, Edith ss	Farmington
Walton, F. Ila ho-V	Afton Wyo.
Walton, F. Ila ho-V Walton, Reuben H. a-V-Fed-ss Wamsley, Lealand F. a-V-Fed Wanlass, Eva P. g-Sp Ward, Huburt C. aema-Sp	Lander Wvo.
Wamsley, Lealand F. a-V-Fed	Logan
Wanlass, Eva P. g-Sp	Preston Idaho
Ward, Huburt C. aema-Sp	Grace Idaho
Warner, Charlotte ho-F	Parle City
Ward, Huburt C. aema-Sp Warner, Charlotte ho-F Warr, Morell aema-V	Logan
Warrick, Meda ss	Logan
Watkins, Elvin aema-V Watkins, Lyle D. a-V	Midview
Watkins, Lyle D. a-V	Murray
Watkins, Lyle D. a-V	Orden
Watts, Clifford a-F Weatherstone, Bertha ss	Logan
Weaver, Mark L. c-V	Donnington Idaho
Weaver, Mark L. c-V	Dichmond
Webb, Alta ss	Downey Ideho
Webb, Christopher aema- V	Downey, Idaho
Webster, May ss	Tawin Idaho
Webster, May ss Weeks, Thos. M. aema-V Welch, Harry L. a-Sp	Doradice
Welch, Harry L. a-Sp	II and Diver Oregon
Welch, Harry L. a-Sp	Orden
West, Alva K. c-Sp	Colt I also City
Westcott, Warren K. a-So	Marrow
Wheeler, Jesse K. a-J	Calaria Israea Chih May
Wheeler, Jesse K. a-J Whetten, Henry A. a-F White, A Earl ss White, Hobart G. a-Sp	Colonia Juarez, Chin., Mex.
White, A Earl ss	Requer
White, Hobart G. a-Sp	Orden
White, Richard C. a-V-Fed	Willord
White, Richard C. a-V-Fed White, Rulon c-Sp	T over an
Whitesides, Fern g-So	Midwala
Whitesides, Fern g-So Whitmore, Jas. M. a-So	Midwale
Whitmore, Ora no-P Whitney, Byron M. aema-V-ss Whitney, Robert B. aema-V	T oran
Whitney, Robert B. aema-V	Cincleville
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Willesen, Wm. H. aema-V-Fed-ss	Clearbrook, Milli.

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Williams, Agnes ho-So	Logan
Williams, Claire ho-F	Logan
Williams, Erda ho-So	Murray
Williams, Geo. T. a-V-Fed-ss	
Williams, Grace V. ho-F	Murray
Williams, John V. g-F	Moled Ideho
Williams, John V. g-F	Maiad, Idano
Williams, Ray B. Ss	Sait Lake City
Williams, S. Verlin c-V	Samaria, Idano
Williams, Ray B. ss Williams, S. Verlin c-V Williams, Walter T. c-V	Samaria, Idaho
Willie, Vernal a-J	Mendon
Willmore, Emma B. c-V	Logan
Willmore, Madison aema-V Willmore, Rebecca g-V	Logan
Willmore Rehecca g-V	Logan
Wilson, Leslie H. aema-V-Fed	Payson
Wilson, Marion L. g-V	Salt I also City
Wilson, Milton T. aema-So	Discon II sights
Wilson, Wilton 1. aema-50	River rieights
Wilson, Wm. W. a-V	Logan
Winberg, J. Conrad aema-V Winkler, Aurel P. a-F	Millville
Winkler, Aurel P. a-F	Mt. Pleasant
Winn, Carl D. aema-So-Fed-ss	Lehi
Wintch, Ardray M. aema-V-Fed	Manti
Wood Cassie H ss	Logan
Wood, Catherine g-F Wood, Delores ho-F Wood, W. Edwins g-F Woodbury, Clare ss	Logan
Wood Delores ho-E	Woods Cross
Wood W Edwins ~ F	T ogan
Woodhan Class a	C-14 T-1 Cit-
woodbury, Clare ss	Sait Lake City
Woodbury, Eugene g-So	Cedar City
Woodland, Richard E. a-V	Willard
Woodruff, Uliver C. a-F	Smithfield
Woodside, Howard M. c-F	Logan
Woodside, Howard M. c-F Woodward, Ernest B. aema-F	Wellsville
Woolley, S. Ray c-F	Grantsville
Woolley, S. Ray c-F Worley, J. Clyde g-Sp	Logan
Worley, K. Blanche ho-So-ss	Logan
Wrathall, Janice ho-So	Grantsville
Wrathall, Penina ho-J	Cupatavilla
Wrong Chan C - V End	Call I also Cites
Wray, Chas. C. c-V-Fed-ss	Sait Lake City
Wright, C. Coulsen R. aema-S Wright, H. Pratt a-F	Logan
Wright, H. Pratt a-F	Hinckley
Wrisley, Gerald M. ss	Logan
Wyatt, Elizabeth g-S	Wellsville
Yao, Hsing H. a-G	Shanghai, China
Young, C. Edward aema-Sp	Provo
Young, Constance g-V Young, John C. aema-V	Idaho Falls, Idaho
Young John C aema-V	Logan
Young, Lena ho-Sp	Idaho Falls Idaho
Young, Vernon a-F-Fed-ss	Monticello
Zandala Jahn - W.E. 4	One le Noticello
Zezulak, John a-V-Fed	Omana, Neb.
Zobell, Deloss a-F	Salt Lake City

## JUNIOR EXTENSION SHORT COURSE, LOGAN, UTAH

	3.61 D1
Allred, Jennie	Mt. Pleasant
Bayles, D. L	Blanding
Bayles, D. L. Betts, Lucile	Payson
Bonacci, John	Helper
Boyle, Keith	Provo
Bradshaw, Thelma	Wellsville
Brandt, Vendella	Salina
Brown, Ruth	Ogden
Brown, Webb	American Forts
Brown, Webb	American Fork
Buchanan, Golden	American Fork
Collett, Byron	vernai
Cornaby, Allen	Spanish Fork
Cowley Naomi	Venice
Devy Walter	American Fork
Duke Harold	Heber City
Flinson Cladys	Grantsville
England Filis	Tooele
Fausett, Iva	Price
Erancia Wandall	Lakeshore
Francis, Wendell Garman, Theo	LaSal
Gee, Teddy	Salina
Goates, Reva	I ehi
Goates, Reva	Orden
Greene, Gladys	Uguen
Gurney, Frederick	Ouden
Hadley, Nina	Ogden
Hanks Lynn	salem
Hansen Frnest	Gosnen
Harmon Chauncey	Mantı
Holt Portio	Layton
Hone Ida	.Pleasant Grove
Humphraye Owen C	. Pleasant Grove
Johnson, Blanche	Pleasant Grove
Jones, Zelpha	Tooele
Kenner, Cecil	Manti
Larsen, Frank	Spanish Fork
Larsen, Frank	Sandy
Larsen, Gordon	I a Sal
Lemaster, Vernon	Uzzan
Lemon, Melvin	Davison
McDowell, Emma	Payson
Markham Ira	Spanish Fork
Mendenhall Cornell	Springvine
Meyer Stella	Monroe
Millor Nina	
Murdock Nettie	neber
Nalder Minnie	Laysun
Niclass Wm	Springville
Oloson Orlin	
Ostler, Roy	Nephi
Ostiei, Roy	

•	
Pace, Alvin	Coalville
Parker, Byron	Payson
Parker, Ethel	American Fork
Parkes, Flora	Nephi
Porter, Roxie	Blanding
Powell, Marguerite	Salt Lake City
Price, Scott	Provo
Rasmussen, Irvin	Mt. Pleasant
Reynolds, Bess	Springville
Richardson, Stanley	Sandy
Roylance, Mary	Springville
Smith, Lola	Vernal
Stacy, John	Bountiful
Thorne, Fern	Pleasant Grove
Inorne, Fern	Morgan
Thurgood, Lee	Morgan
Visick, Hubert	Topele
Vowles, Dallas	Plansant Grove
Wadley, LaVere	Colt Toles City
Warenski, LaVerne	Dricham
Whentley Othello	
Wicker 7elma	
Wilcox Augusta	
Willowhy Edith	Coaivine
Winget Frank	
Woodwatt Ada	· · · · · · · · · · · · · · · · · · ·
Young, Zelma	Mona

### SUMMARY OF ATTENDANCE 1920-21

	Agriculture Men	A. E. M. A. Men	Commerce Men	Commerce Women	General Science Men	General Science Women	Home Economics Women	TOTAL	GRAND
COLLEGE Graduates Seniors Juniors Sophomores Freshmen Specials	8 23 12 43 68 20	3 7 5 28 35 17	2 5 9 20 48 13	1 4 6 3	3 3 10 17 33 13	5 8 5 13 27 14	2 15 11 33 56 22	23 61 53 158 273 102	670
	174	95			10	9	32	-	504
Vocational	141	230	48	34	89	81	171	-	1174
Summer School 1920—Men					347 642				
Less Names Repeated						2163 169			
Net Total 1					1994				
FARMERS' CONVENTIONS AND HOUSEKEEPERS' CONFERENCES									
Logan—Men								127 155 88	
								147	517
Junior Extension								39	
Girls								35	74
Net To	tal							1	591

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## Year-round Service

By offering four quarters of twelve weeks each, the Utah Agricultural College renders year-round service to Utah and the West. Students may enter at the beginning of any quarter and find new courses starting. It is best to begin with the Fall Quarter and continue until the close of school in the Spring. The Summer Quarter is now an integral part of the school year. It offers exceptional opportunities to those who desire to accumulate extra credits and thus hasten graduation.

The opening dates for the 1921-22 year are as follows:

Fall Quarter opens September 12. Winter Quarter opens November 28. Spring Quarter opens March 6. Summer Quarter opens June 5.



Illustrated, descriptive circulars dealing with the work of the various Schools—Agriculture, Agricultural Engineering, Home Economics, Commerce, Mechanic Arts, General Science, and Summer School—and with Student Activities, are published. A special announcement describing in full the extensive work given by the College in teacher-training is also ready for distribution. Send to the President's Office for copies of the circulars in which you are interested.